# ICF-CD555TV

# SERVICE MANUAL

*US Model*
*Canadian Model*

**Ver. 1.3 2005.10**

| | |
|---|---|
| Model Name Using Similar Mechanism | ZS-D10 |
| Optical Pick-up Block Name | KSM-900AAA |
| Optical Pick-up Name | KSS-900A |

## SPECIFICATIONS

### AUDIO POWER SPECIFICATIONS (US model only)

POWER OUTPUT AND TOTAL HARMONIC DISTORTION
With 6–ohm loads, both channels driven from 100 – 10,000 Hz; rated 1.4 W per channel-minimum RMS power, with no more than 10 % total harmonic distortion in AC operation.

### TV section

**Television system:** American TV standard/NTSC
**Channel coverage:**
VHF: 2–13/UHF: 14–69/CATV: 1–125
**Antenna:**
75-ohm external antenna terminal for VHF/UHF
**Display type:** Wide LCD color monitor
**Size:** 7 inches
**System:** TFT active matrix
**Number of pixel:** 336,960 pixels
**Input:** 1 video, 1 audio

### CD player section

**System:** Compact disc digital audio system
**Laser diode properties:** Material: GaAlAs
Wavelength: 780 nm
Emission duration: Continuous
Laser output: Less than 44.6 µW
(This output is the value measured at a distance of about 200 mm from the objective lens surface on the optical pick-up block with 7 mm aperture.)
**Frequency response:** 20 – 20,000 Hz $^{+1}_{-1.5}$ dB
**Wow and flutter:** Below measurable limit

### Radio section

**Frequency range:**
FM: 87.5 – 108 MHz
AM: 530 – 1,710 kHz

### General

**Time display:** 12-hour system
**Speaker:** 77 mm (3 1/8 inches) dia, 6 Ω
**Power outputs:**
1.8 W + 1.8 W (at 10% harmonic distortion)
**Power requirements:** 120 V AC, 60 Hz
**Dimensions:**
Approx. 400 × 104 × 323 mm (w/h/d)
(Approx. 15 3/4 × 4 1/8 × 12 3/4 inches) incl. projecting parts and controls
**Mass:** Approx. 4.2 kg (9 lb 4.2 oz)

**Supplied accessories:**
Mounting screws (4), Template (1), Spacers (4), Remote commander (1)

Design and specifications are subject to change without notice.

## LCD-TV CD KITCHEN CLOCK RADIO

**9-877-644-04**
2005J05-1
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**Sony Corporation**
**Personal Audio Group**
**Published by Sony Engineering Corporation**

SONY®

### Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

### Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 °C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

### SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, “metallized” knobs, screws, and all other exposed metal parts for AC leakage.
Check leakage as described below.

### LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers’ instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The “limit” indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

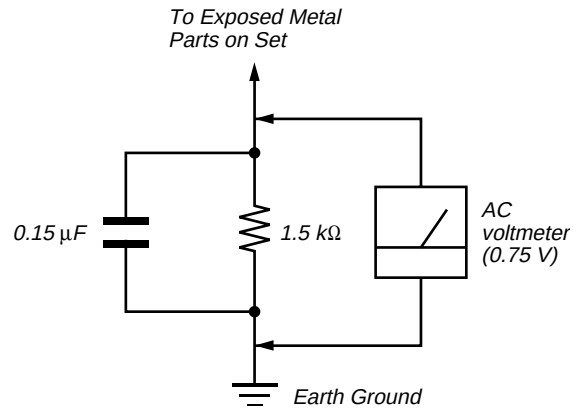


***Fig. A. Using an AC voltmeter to check AC leakage.***

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

**About CD-Rs/CD-RWs**
This unit is compatible with CD-Rs/CD-RWs but playback capability may vary depending on the quality of the disc, the recording device and application software.

**SAFETY-RELATED COMPONENT WARNING!!**

**COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.**

**ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!**

**LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COM- POSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.**

# SECTION 1
# SERVICING NOTES

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### NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

### NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

### UNLEADED SOLDER

Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead.
(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size)

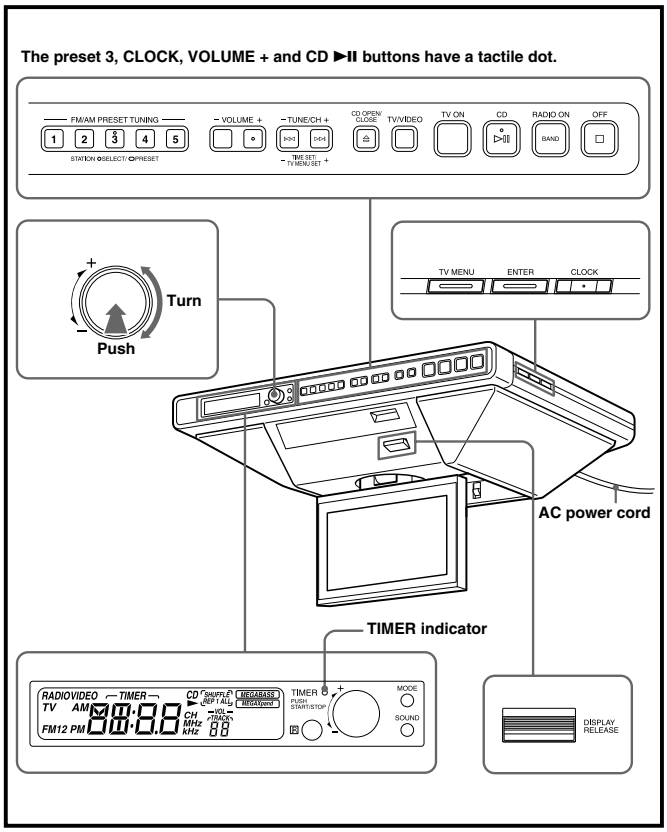
### : LEAD FREE MARK

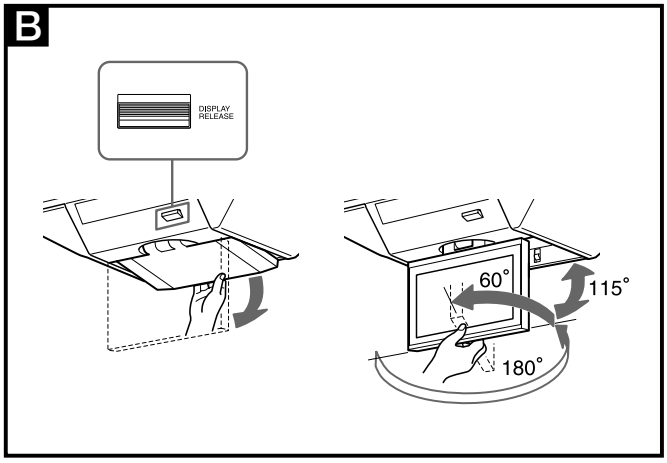
Unleaded solder has the following characteristics.

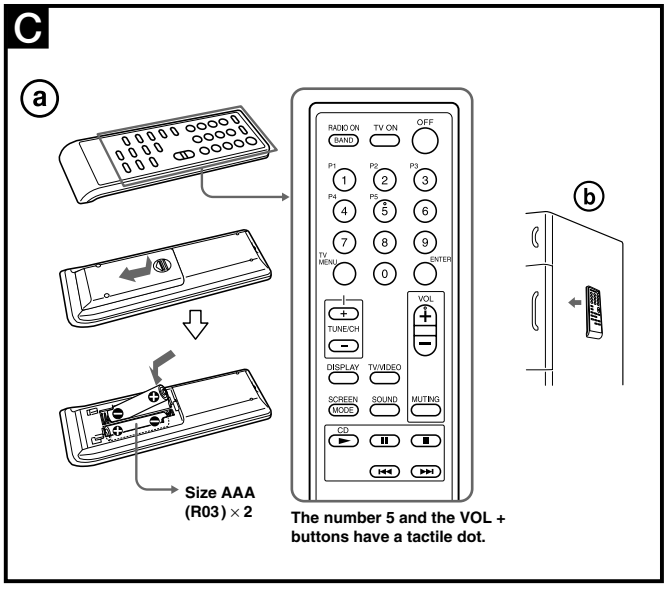
- Unleaded solder melts at a temperature about 40 °C higher than ordinary solder.
  Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
  Soldering irons using a temperature regulator should be set to about 350 °C.
  Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
  Unleaded solder is more viscou-s (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
  It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

# SECTION 2
# GENERAL

This section is extracted from instruction manual.



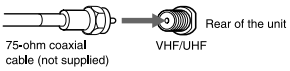

## Features

Super Slim under the counter LCD-TV
7" wide-screen LCD Color panel display
TV/Cable Tuner
TV stereo/Auto SAP Function
MEGA Xpand function to get the effect of expansion of the sound field
Easy Set, One Touch Cooking Timer
Magnetic Remote Commander

## Basic Connections (Connecting Cable TV or Antenna)

Connecting directly to cable or an antenna

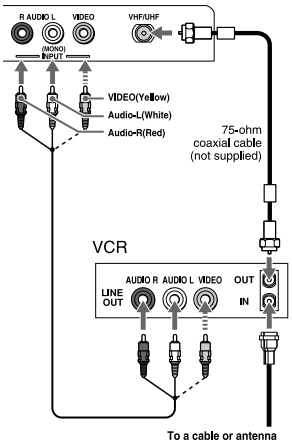
**VHF only or VHF/UHF or cable**




## Connecting a VCR and TV

Use this hookup if you subscribe to a cable TV System that does not require a cable box.

**Rear of the unit**




## Setting the Clock

**1** Plug in the kitchen clock radio.
The display will flash ÒAM 12:00Ó

**2** Press **CLOCK** for a few seconds.
You will hear a beep and the hour will start to flash in the display.

**3** Press **TIME SET +** or until the correct hour appears in the display.

**4** Press **CLOCK** once.
The minutes will flash.

**5** Repeat steps **3** and **4** to set the minutes.
After setting the minutes, press **CLOCK** to start the counting of the seconds, and you will hear two short beeps.

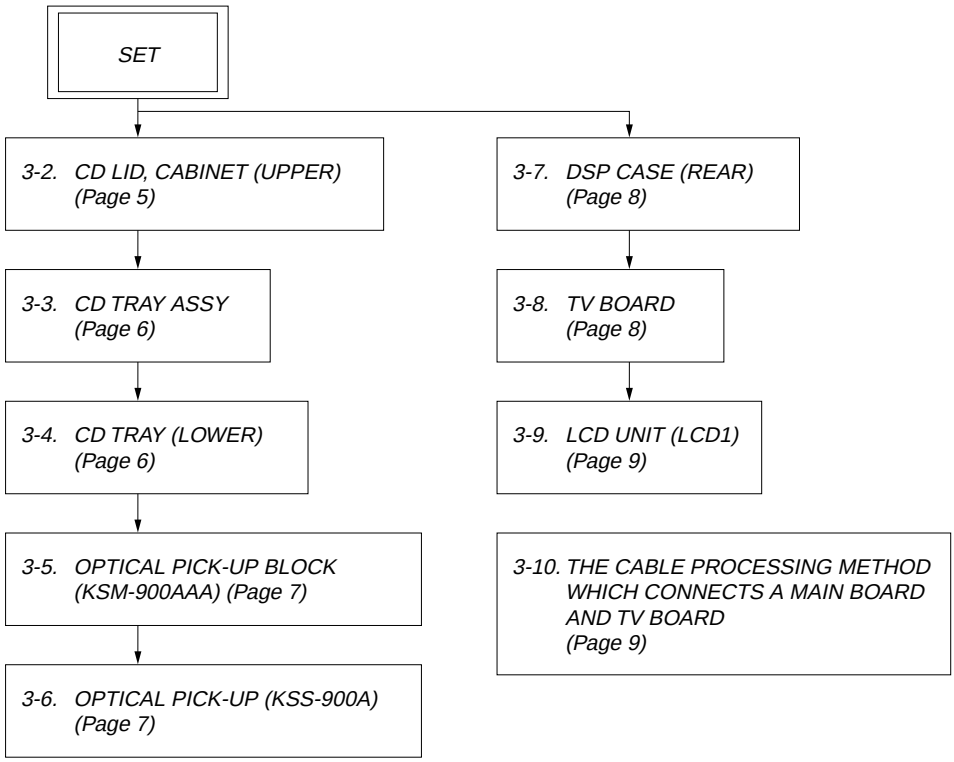
To set the current time quickly, hold down **TIME SET +** or .
12-hour system: ÒAM 12:00Ó= midnight

In step **5**, when you press **CLOCK** after the minute setting to activate the clock, the seconds start counting from zero.

# SECTION 3
# DISASSEMBLY

• This set can be disassembled in the order shown below.

## 3-1. DISASSEMBLY FLOW


SET
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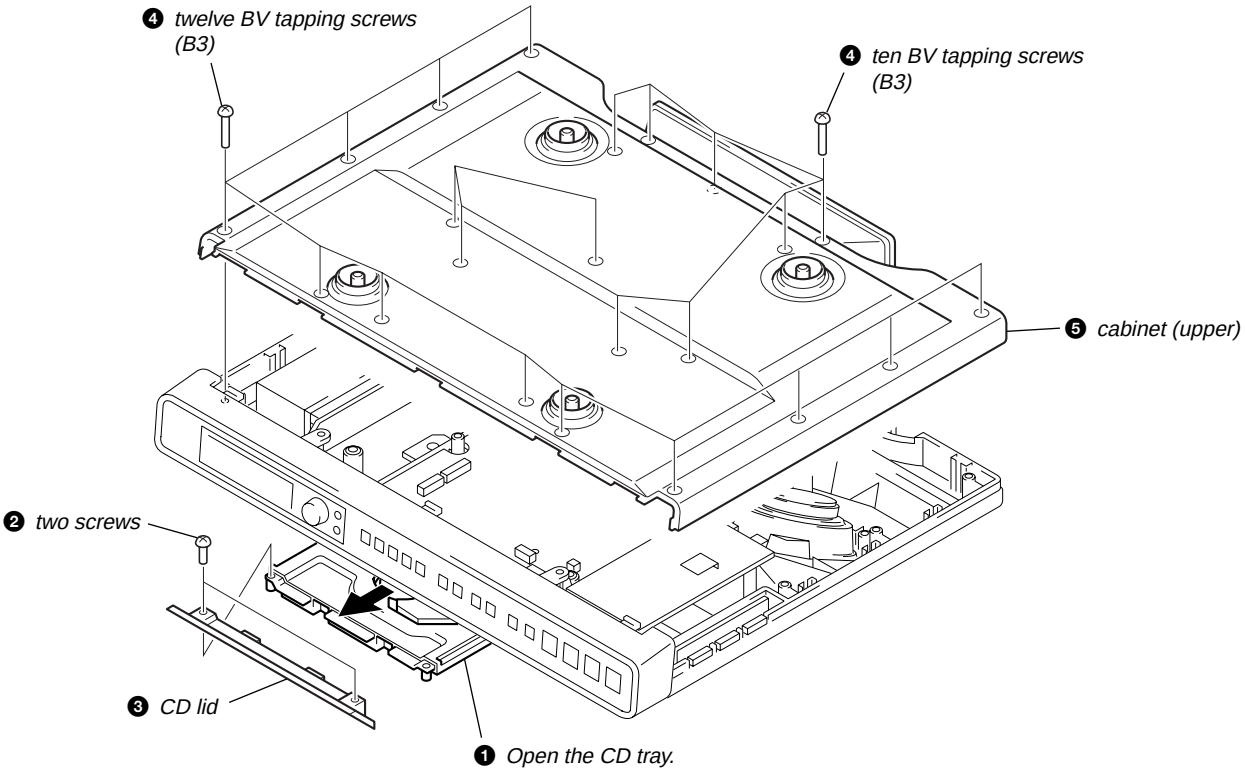
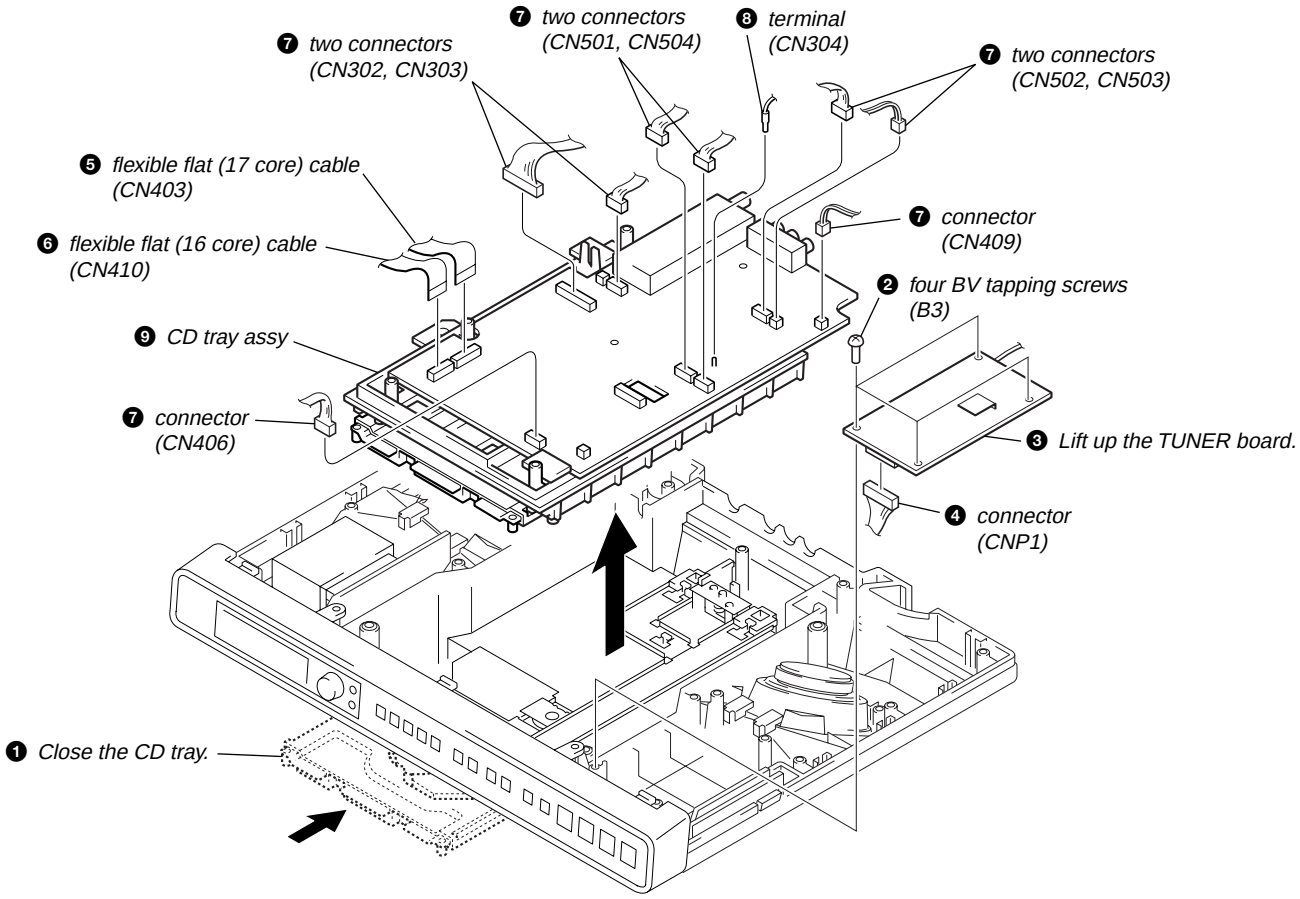
**Note:** Follow the disassembly procedure in the numerical order given.

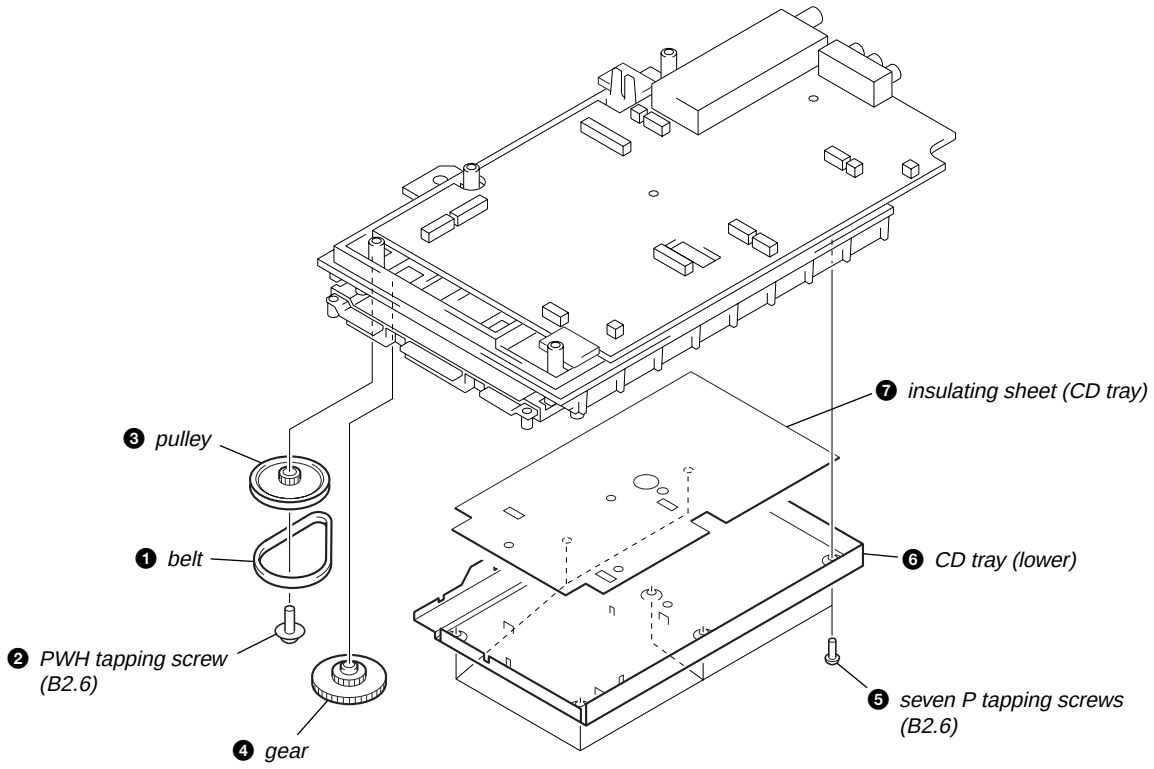
## 3-2. CD LID, CABINET (UPPER)



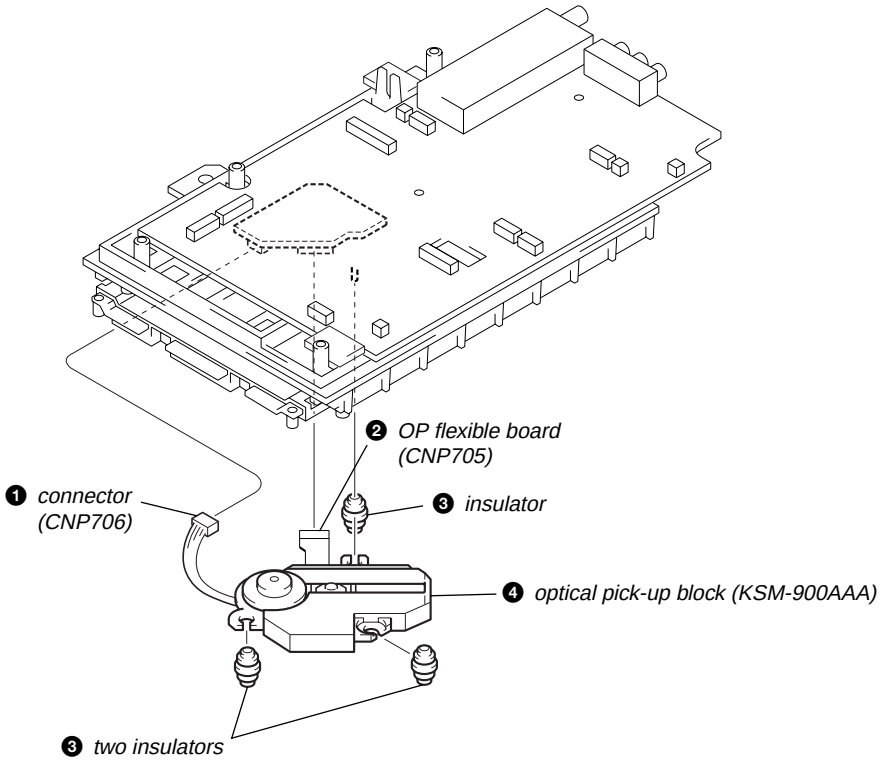
### 3-3. CD TRAY ASSY


❼ two connectors (CN302, CN303)
❼ two connectors (CN501, CN504)
❽ terminal (CN304)
❼ two connectors (CN502, CN503)
❺ flexible flat (17 core) cable (CN403)
❻ flexible flat (16 core) cable (CN410)
❼ connector (CN409)
❷ four BV tapping screws (B3)
❾ CD tray assy
❼ connector (CN406)
❸ Lift up the TUNER board.
❹ connector (CNP1)
❶ Close the CD tray.

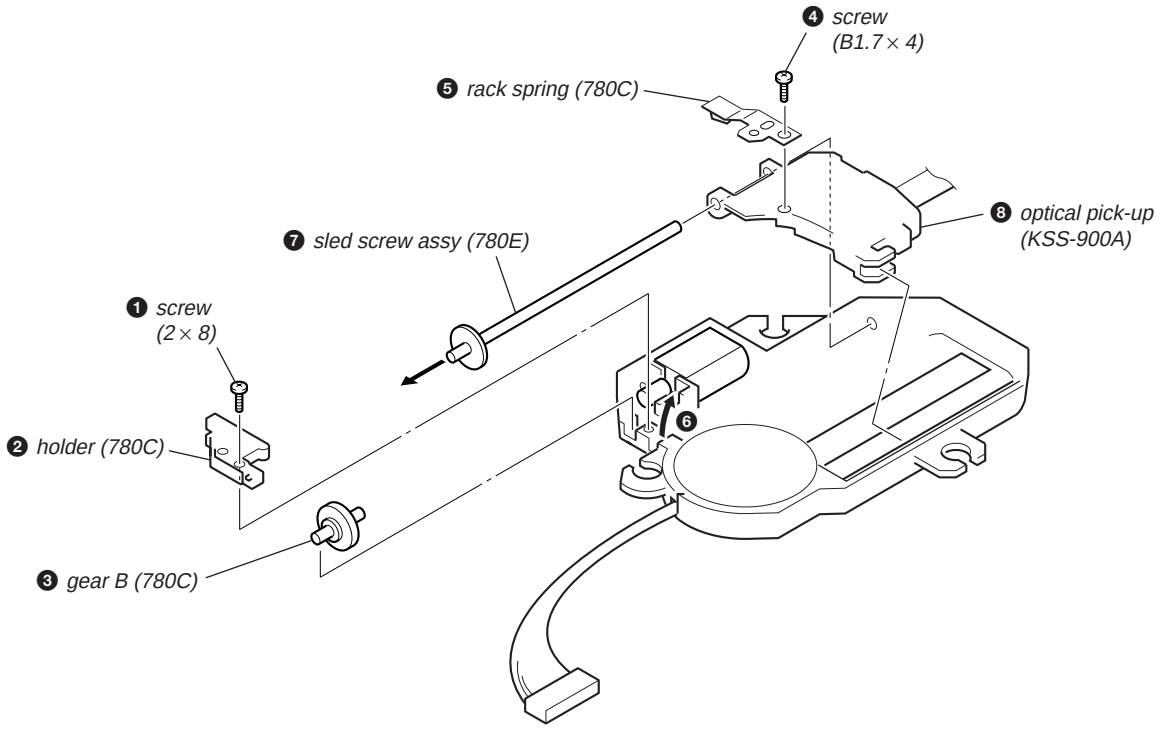
### 3-4. CD TRAY (LOWER)



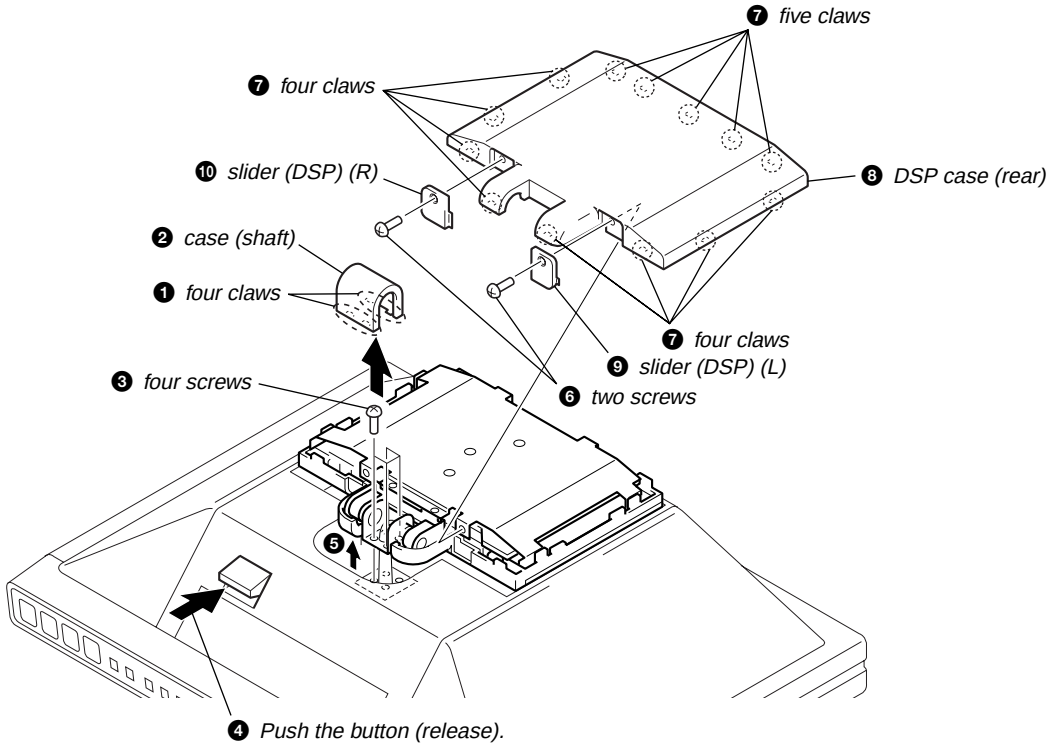
### 3-5. OPTICAL PICK-UP BLOCK (KSM-900AAA)



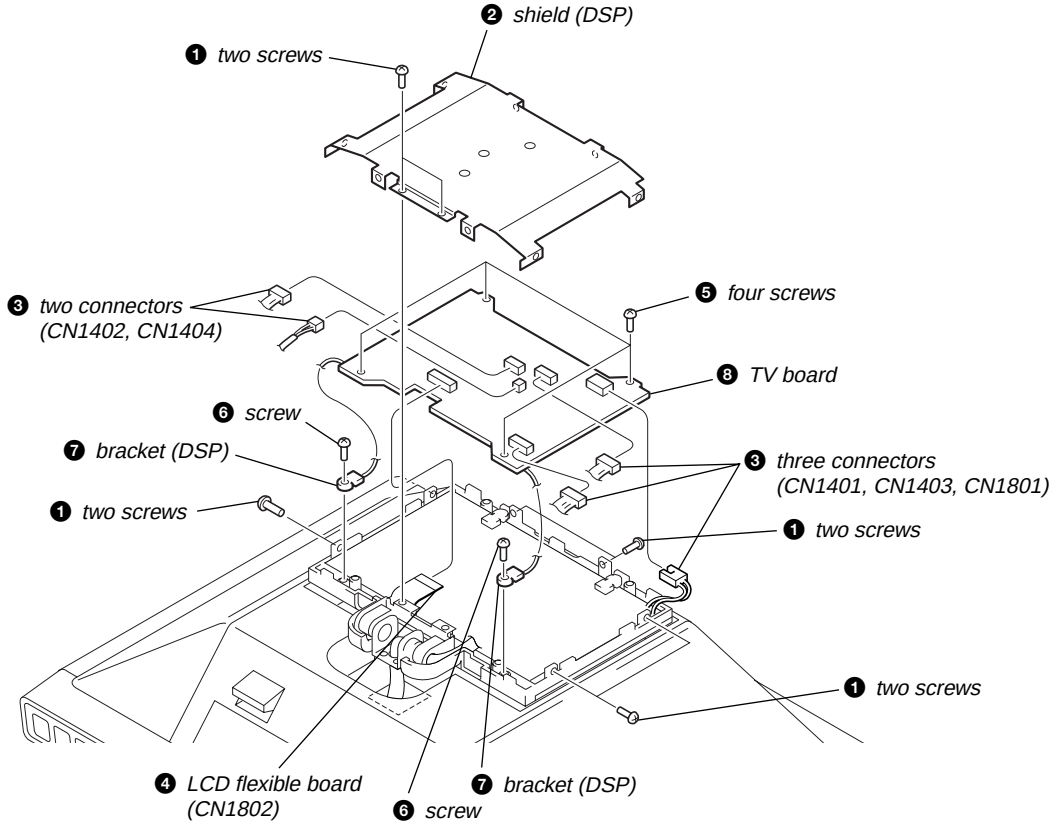

### 3-6. OPTICAL PICK-UP (KSS-900A)



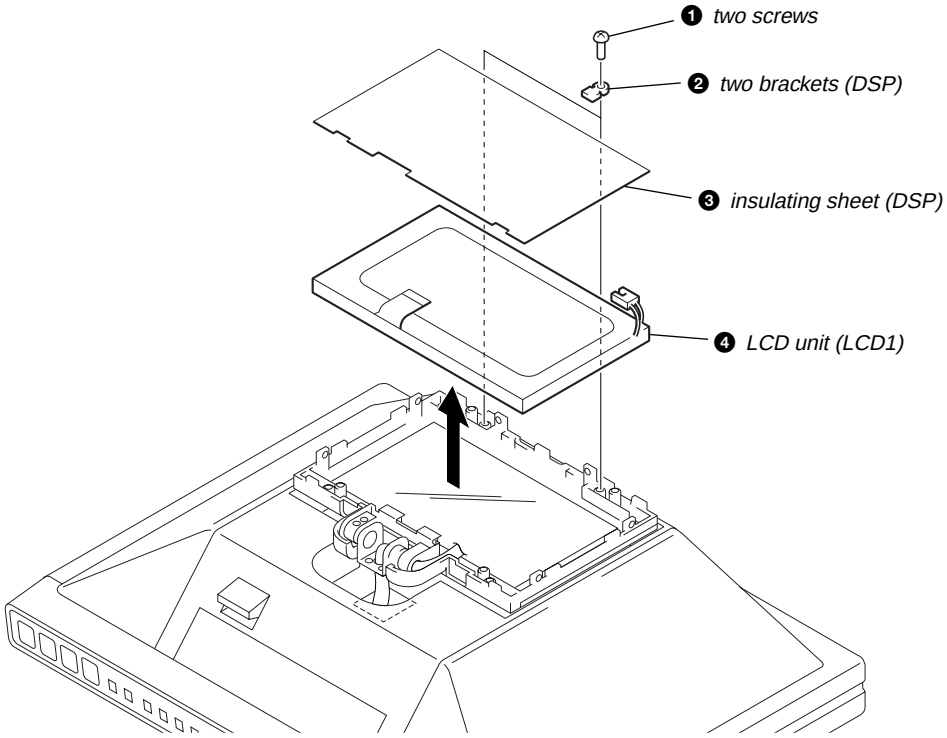
### 3-7. DSP CASE (REAR)




### 3-8. TV BOARD

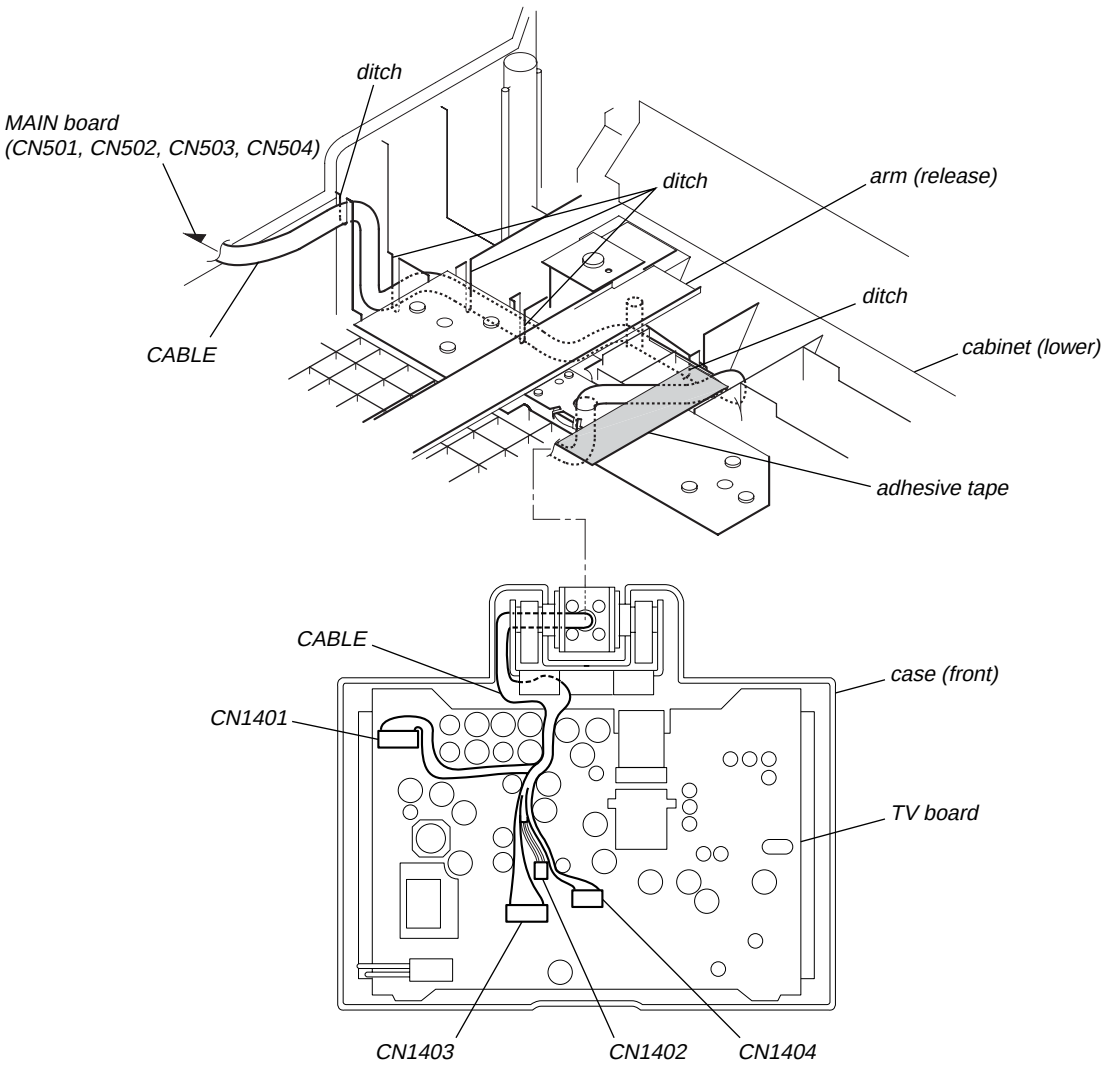


### 3-9. LCD UNIT (LCD1)




### 3-10. THE CABLE PROCESSING METHOD WHICH CONNECTS A MAIN BOARD AND TV BOARD

*Note: When connecting cable, set it as shown in the figure.*



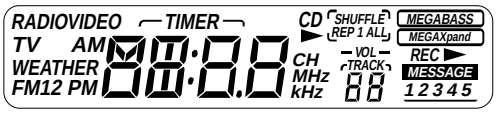
# SECTION 4
# TEST MODE

## LCD TEST MODE

**Procedure:**

1. Turn the power ON while pressing simultaneously three keys of [2], [VOLUME –] and [TV/VIDEO].
2. The microprocessor version will be displayed on the LCD.
3. Press the [⏏] key. The LCD display will become as follows.

***LCD display***




4. The display corresponding to a key is turned off, if a key on the set is pressed.

**Key Corresponding Table**

| Key | Segment |
|---|---|
| CLOCK | AM, PM, : (colon), |
| TIMER | ⌜ TIMER ⌝, TIMER LED |
| 1 | 1a, 1d, 1e, 1f, 1g |
| 2 | 2c, 2f |
| 3 | 3e, 3f |
| 4 | 4a, 4d, 4e |
| 5 | 5b, 5e |
| VOLUME – | – VOL – |
| VOLUME + | . (dot), MHz, kHz, CH |
| ⏮ | 6b |
| ⏭ | 6a, 6c, 6d, 6e, 6f, 6g |
| BAND | RADIO, WEATHER, FM1, FM2 |
| ☐ | 1b, 1c, 2a, 2b, 2d, 2e, 2g, 3a, 3b, 3c, 3d, 3g, 4b, 4c, 4f, 4g, 5a, 5c, 5d, 5f, 5g |
| ▷II | CD, ⌜ TRACK ⌝, ▷ |
| MODE | ⌝⌟⌞⌜ , SHUFFLE, REP, 1, ALL |
| TV/VIDEO | VIDEO |
| TV ON | TV |
| SOUND | MEGA BASS, MEGA EXPAND |
| TV MENU | REC, MESSAGE, MB number underline |
| ENTER | 1, 2, 3, 4, 5, ► |

5. After all keys on the set were pressed, press the [⏏] key, and the test mode will be released.

## CD TEST MODE

**Procedure:**

1. Connect 120 kΩ and 47 kΩ resistors in parallel to the TP604 on the SIDE-KEY board, and short another end of resistors to the GND, and the CD TEST MODE will be activated.
2. Insert a CD disc.
3. Turn the power ON. Press the [▷II] key.
4. The following shows the state transition table for each key operation in respective sub modes of CD TEST MODE.
5. Turn the power OFF to release the CD TEST MODE.

### State Transition Table

If each key is pressed in respective sub modes, the mode will transit to the sub modes listed in table.

| Mode | | Description | LCD | Key | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Main | Sub | | | □ | ▷II | ▶▶I | I◀◀ | BAND | TV ON | ▶▶I Long pressed | I◀◀ Long pressed | Processing end |
| INT | | State when TEST MODE is activated. | 0 | STOP0 | FOCUS0 | | | | | | | |
| STOP | STOP0 | State when [□] key is pressed once from initial state. | 1 | | FOCUS0 | SLDR | SLDF | EF | Normal | | | |
| | STOP | Automatically adjusted value is held. | 2 | STOP0 | FOCUS0 | SLDR | SLDF | | Normal | | | |
| FOCUS | FOCUS0 | Auto focus transfer mode | 3 | STOP | | | | | | | | FOCUS |
| | FOCUS | Focus servo ON state.(CLV-S, tracking/sled, servo OFF) It will be referred to as LPC ON if focus carries out on. | 4 | STOP | F.LPC OFF | FCSR | FCSF | EF | AUTO | | | |
| | F.LPC OFF | LPC OFF in focus state. | 5 | STOP | ALSV | FCSR | FCSF | SCURVE | | | | |
| ALL SERVO | ALSV | State where all servo systems are turned ON. | 7 | STOP | ALPC OFF | FCSR | FCSF | EF | AUTO | | | |
| | ALPC OFF | State where all servo systems are turned ON.(LPC OFF) | 8 | STOP | TGUP | FCSR | FCSF | | | | | |
| | TGUP | State with tracking gain up in all servo systems are turned ON.(LPC ON) | 9 | STOP | ALSV | FCSR | FCSF | | | | | |
| | AUTO | Mode in which automatic adjustment is made at once. | b | | | | | | | | | |
| SLED | SLDF | Sled is fed outward in stop state. | c | STOP | STOP | STOP | | STOP | STOP | | SLDF | |
| | SLDR | Sled is fed inward in stop state. | d | STOP | STOP | | STOP | STOP | STOP | SLDR | | |
| F.SLED | FCSF | Sled is fed outward in focus state. | E | FOCUS | FOCUS | FOCUS | | FOCUS | FOCUS | | FCSF | |
| | FCSR | Sled is fed inward in focus state. | F | FOCUS | FOCUS | | FOCUS | FOCUS | FOCUS | FCSR | | |

## CD-JUMP TEST MODE

**Procedure:**

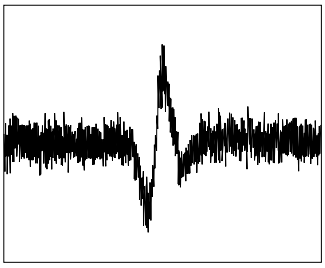
1. Connect the oscilloscope to TP (TE) and TP (VREF) on the CD board.
   Connecting Location: CD board (See page 13)
2. Connect 270 kΩ and 47 kΩ resistors in parallel to the end of TP604 on the SIDE-KEY board, and short another end of resistors to the GND, and the CD-JUMP TEST MODE will be activated.
3. Insert a CD disc.
4. Turn the power ON. Press the [▷II] key.
5. If the [MODE] key is pressed, you can jump in fast feed or fast reverse direction with the [▶▶I] or [I◀◀] key by the jump amount set in table 1.
6. Turn the power OFF to release the CD-JUMP TEST MODE.

### Table 1

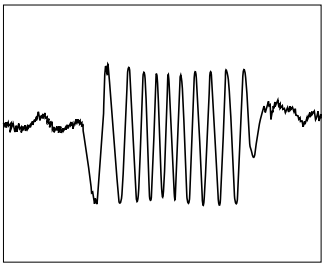
| LCD | Key | |
|---|---|---|
| | ▶▶I | I◀◀ |
| REP ALL | TRACK + 1 | TRACK - 1 |
| SHUFFLE | TRACK + 10 | TRACK - 10 |
| SHUFFLE, REP | TRACK + 100 | TRACK - 100 |

Waveform of TP (TE) and TP (VREF) output in each mode is as follows.

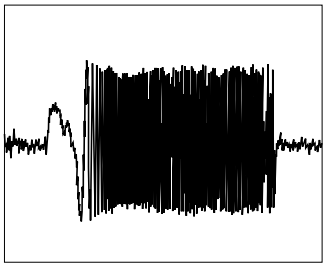
REPEAT – ALL mode
500 µs/div



SHUFFLE mode
1 ms/div

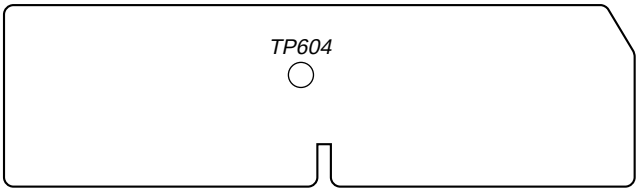


SHUFFLE – REPEAT mode
10 ms/div



**Connecting Location:**

**– SIDE-KEY BOARD (Conductor Side) –**



## TV TEST MODE

**Procedure:**

1. Turn the power ON while pressing simultaneously two keys of [2] and [VOLUME –].
2. When the TV test mode is activated, the TV monitor will become as follows.

```
   SR7570 TEST MODE MENU

1. INITIAL MENU
2. FOR FACTORY
3. LCD SETTING
4. LOAD DEFAULT
5. TUNER TEST



              Ver.7570S100
```

3. Five items can be changed over by pressing the [TV MENU] key.
4. The selected item is displayed in red and the items not selected are displayed in cyan. (“Ver. 7570S100” is displayed in red.)
5. You can enter the selected item by pressing the [ENTER] key.
6. Also, an item can be selected directly with the [1] to [5] keys on the set or remote commander (RMT-CCD555A).

### 1. INITIAL MENU (TV MENU PRESET)

- TV menu item is initialized.

**Procedure:**

1. Press the [TV MENU] key to select the “INITIAL MENU” on the main screen.
2. Each item of TV menu can be initialized, if pressing the [ENTER] key.

### 2. FOR FACTORY (FOR ADJUSTMENT)

- It is used at the time of adjustment.

**Procedure:**

1. Press the [TV MENU] key to select the “FOR FACTORY” on the main screen.
2. A changing between setting item and “EXIT” is possible by pressing the [TV MENU] key. (The selected item is displayed in red)
3. If the [ENTER] key is pressed when the setting item has been selected, settable items can be changed over, and the value of the selected item can be adjusted by pressing the [I◄◄] / [►►I] keys. (For details, refer to VIDEO BUS ADJUSTMENT (See page 17))
4. The main screen comes back if the [ENTER] key is pressed when “EXIT” has been selected.

**Note:** The same operation is also carried out by pressing the keys on the remote commander.

### 3. LCD SETTING

This mode is not used in servicing.

### 4. LOAD DEFAULT

- It carries out, only when EEPROM (IC1451) is exchanged.

**Procedure:**

1. Press the [TV MENU] key to select the “LOAD DEFAULT” on the main screen.
2. All settings can be initialized, if pressing the [ENTER] key. (In addition to the “INITIAL MENU”, set value of RGB decoder (IC1501) and tuner N value)

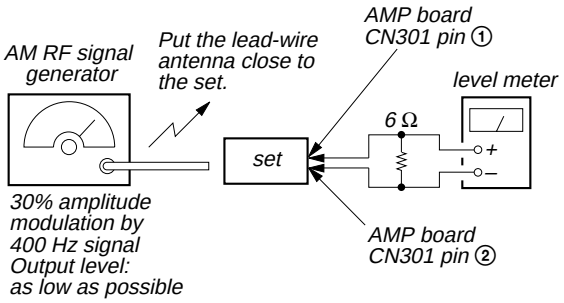
### 5. TUNER TEST

This mode is not used in servicing.

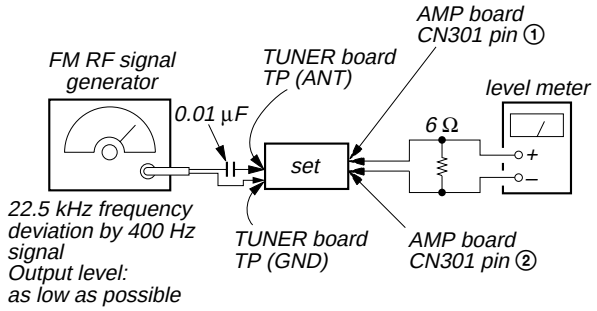
# SECTION 5
# ELECTRICAL ADJUSTMENTS

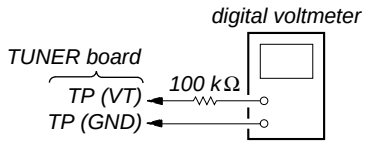
**TUNER SECTION** 0 dB=1 μV

**[AM]**
**Setting:**
Function: RADIO
Band: AM




**[FM]**
**Setting:**
Function: RADIO
BAND button: FM




- Repeat the procedures in each adjustment several times, and the tracking adjustments should be finally done by the trimmer capacitors.

| AM IF ADJUSTMENT | |
|---|---|
| Adjust for a maximum reading on level meter | |
| T1 | 450 kHz |

| AM VCO VOLTAGE ADJUSTMENT | | |
|---|---|---|
| Adjustment Part | Frequency Display | Reading on Digital Voltmeter |
| L4 | 530 kHz | 1.0 ± 0.1 V |
| Confirmation | 1,710 kHz | 5.3 ± 0.7 V |

| AM TRACKING ADJUSTMENT | |
|---|---|
| Adjust for a maximum reading on level meter | |
| L3 | 580 kHz |
| CT3 | 1,490 kHz |

| FM IF ADJUSTMENT | |
|---|---|
| Adjust for a minimum reading on level meter | |
| T2 | 10.7 MHz |

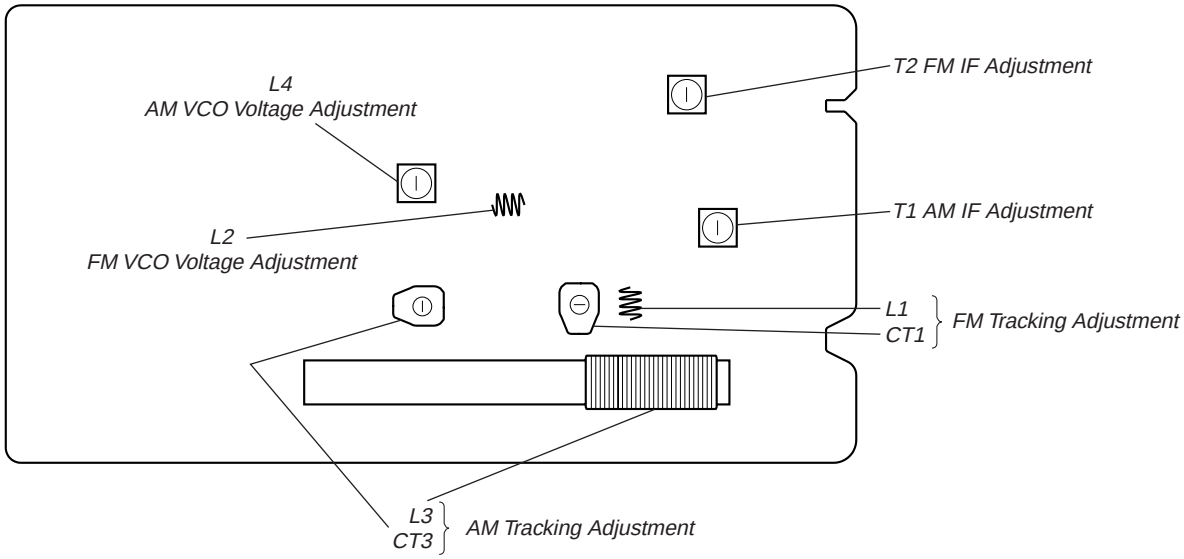
| FM VCO VOLTAGE ADJUSTMENT | | |
|---|---|---|
| Adjustment Part | Frequency Display | Reading on Digital Voltmeter |
| L2 | 87.5 MHz | 1.3 ± 0.3 V |
| Confirmation | 108 MHz | 3.0 ± 0.2 V |

| FM TRACKING ADJUSTMENT | |
|---|---|
| Adjust for a maximum reading on level meter | |
| L1 | 87.5 MHz |
| CT1 | 108 MHz |

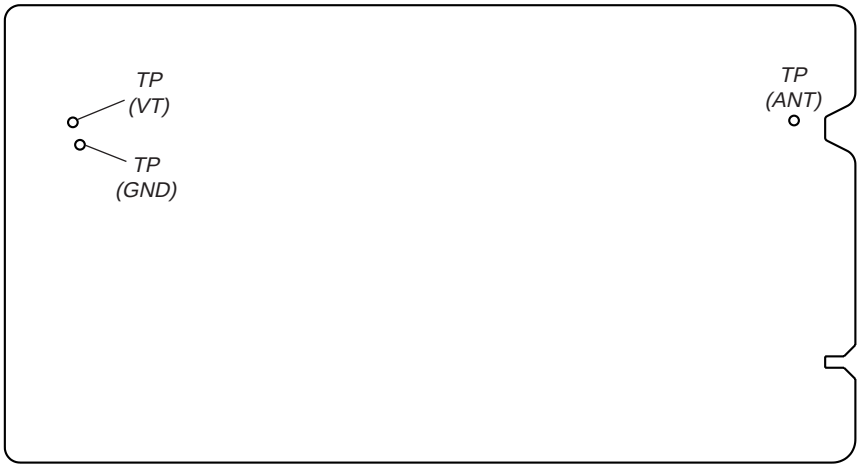
**Adjustment and Connecting Location:**
TUNER board (See page 14)

**Adjustment and Connecting Location:**

**– TUNER BOARD (Component Side) –**




**– TUNER BOARD (Conductor Side) –**



## CD SECTION

Perform all CD section check in the test mode.

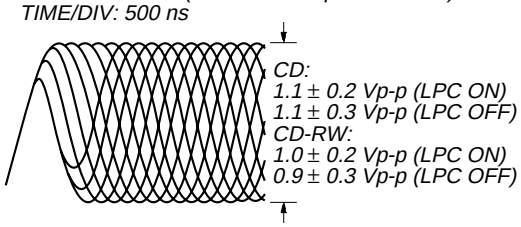
### FOCUS BIAS CHECK

**Procedure:**

1. Connect the oscilloscope to TP (RF) and TP (VREF) on the CD board.
2. Set the CD TEST MODE. (Refer to CD TEST MODE (See page 9))
3. Insert the test disc (YEDS-18). (Part No. 3-702-101-01) (CD)
4. Press the [▷II] key. (LPC ON)
5. Confirm that the oscilloscope waveform is as shown in the figure below. (eye pattern)
   A good eye pattern means that the diamond shape (◊) in the center of the waveform can be clearly distinguished.
6. Press the [▷II] key. (LPC OFF)
7. Perform confirmation in the same manner as step 5.
8. Press the [□] key.
9. Change the test disc (TCD-W082L). (Part No. J-2502-063-2) (CD-RW)
10. Perform confirmation in the same manner as step 4 to 7.

**• RF signal reference waveform (eye pattern)**

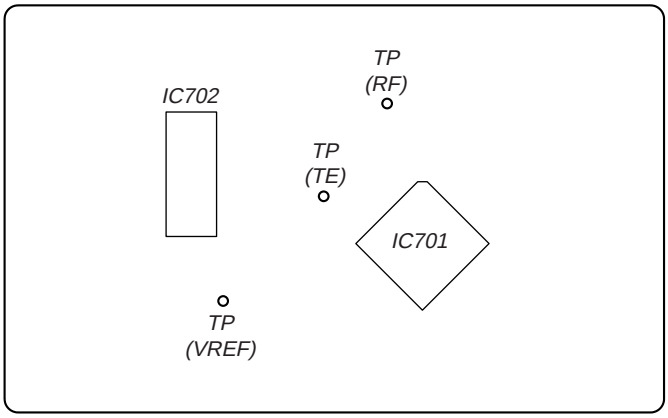
*VOLT/DIV: 0.2 V (with the 10: 1 probe in use.)*
*TIME/DIV: 500 ns*




*When observing the eye pattern, set the oscilloscope for AC range and raise vertical sensitivity.*

**Connecting Location:**

**– CD BOARD (Conductor Side) –**

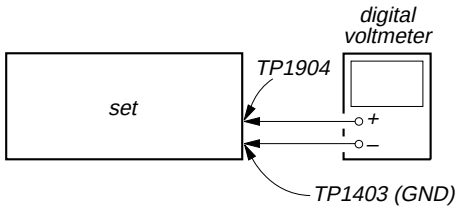


## MONITOR SECTION

## 5-1. VOLTAGE CHECK

### 5-1-1. VDD (3.3V) CHECK

**Connection:**

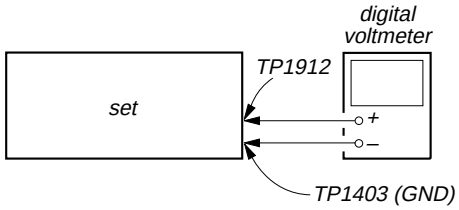



**Checking Procedure:**

1. Connect a digital voltmeter to the TP1904 on the TV board.
2. Check that the reading of digital voltmeter is 3.3 ± 0.2 V.

### 5-1-2. VGH (17.0V) CHECK

**Connection:**

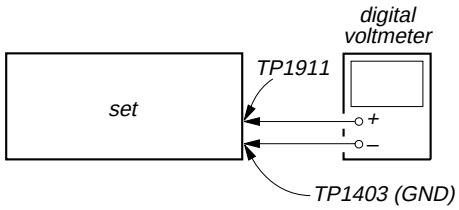



**Checking Procedure:**

1. Connect a digital voltmeter to the TP1912 on the TV board.
2. Check that the reading of digital voltmeter is 17.5 ± 0.5 V.

### 5-1-3. VSS (–13.0V) CHECK

**Connection:**

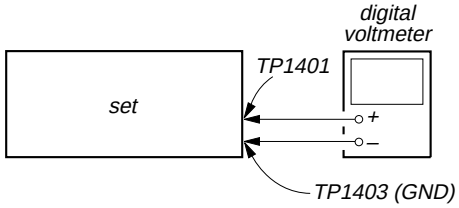



**Checking Procedure:**

1. Connect a digital voltmeter to the TP1911 on the TV board.
2. Check that the reading of digital voltmeter is –12.5 ± 0.5 V.

### 5-1-4. 13.5V CHECK

**Connection:**

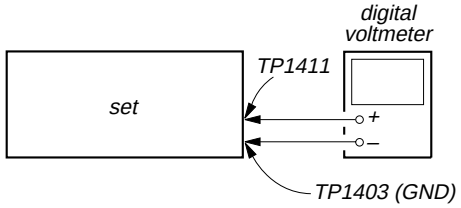



**Checking Procedure:**

1. Connect a digital voltmeter to the TP1401 on the TV board.
2. Check that the reading of digital voltmeter is 11.5 ± 0.5 V.

### 5-1-5. 3.9V CHECK

**Connection:**

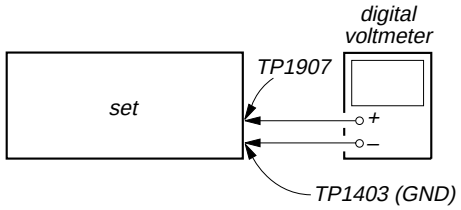



**Checking Procedure:**

1. Connect a digital voltmeter to the TP1411 on the TV board.
2. Check that the reading of digital voltmeter is 3.85 ± 0.2 V.

### 5-1-6. 7.5V CHECK

**Connection:**

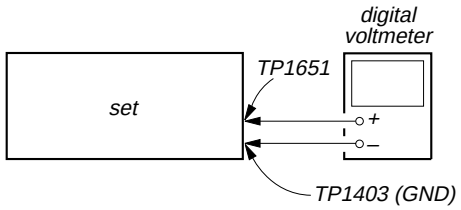



**Checking Procedure:**

1. Connect a digital voltmeter to the TP1907 on the TV board.
2. Check that the reading of digital voltmeter is 7.3 ± 0.2 V.

## 5-2. PLL ADJUSTMENT

**Connection:**

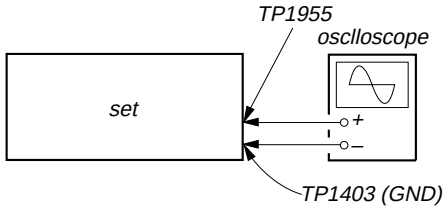



**Adjusting Procedure:**

1. Connect a digital voltmeter to the TP1651 on the TV board.
2. Adjust the RV1651 so that the reading of digital voltmeter is 2.2 ± 0.15 V.

## 5-3. V COM ADJUSTMENT

**Connection:**

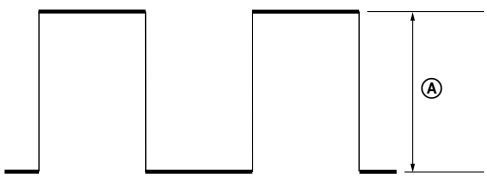



**Adjusting Procedure:**

Connect an oscilloscope to the TP1955 on the TV board.

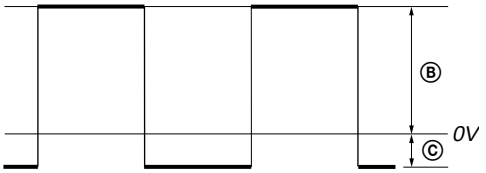
### 5-3-1. VOLTAGE SET UP ADJUSTMENT

Adjust the set so that the Ⓐ level of the waveform on the oscilloscope is 6.6 ± 0.1 Vp-p. (Refer to the 5-7. video bus adjustment (See page 17))



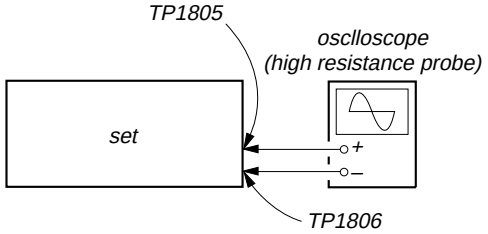
#### 5-3-2. POSITION SET UP ADJUSTMENT

Check the Ⓑ level of the waveform on the oscilloscope is 4.2 ± 0.1 Vp-p and adjust the RV1551 so that the Ⓒ level of the waveform on the oscilloscope is –2.4 ± 0.1 Vp-p.




### 5-4. INVERTER HIGH VOLTAGE CHECK

**Connection:**




**Checking Procedure:**

Connect an oscilloscope to the TP1805 and TP1806 on the TV board.

#### 5-4-1. HIGH VOLTAGE CHECK

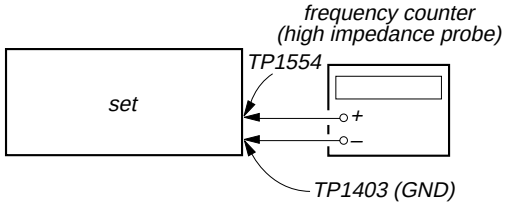
Check that the reading of oscilloscope is 550 ± 150 V (rms).

#### 5-4-2. FREQUENCY CHECK

Check that the reading of oscilloscope is 70 ± 3 kHz.

### 5-5. OSD DOT CLOCK CHECK

**Connection:**

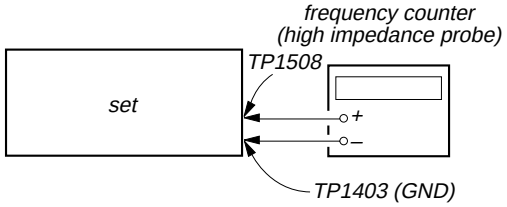



**Adjusting Procedure:**

1. Connect an frequency counter to the TP1554 on the TV board.
2. Check that the reading of frequency counter is 6.5 ± 0.2 MHz.

### 5-6. NTSC SUB CARRIER CHECK

**Connection:**

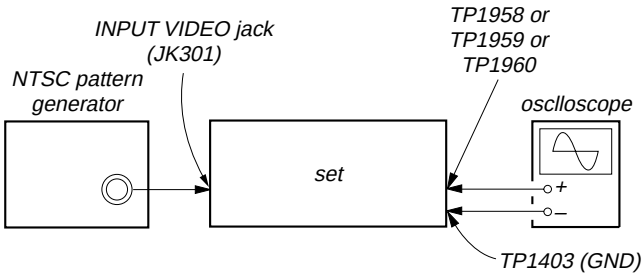



**Checking Procedure:**

1. Connect an frequency counter to the TP1508 on the TV board.
2. Check that the reading of frequency counter is 3.579545 ± 0.0001 MHz.

### 5-7. VIDEO BUS ADJUSTMENT

**Connection: (5-7-1 to 5-7-9)**




**Condition: (5-7-1 to 5-7-9)**

Input the NTSC video signal (10 step (no burst)) (1 Vp-p 75 Ω) to the INPUT VIDEO jack (JK301) on the MAIN board from NTSC pattern generator.

**Adjusting Procedure:**

1. Set the TV test mode (Refer to TV TEST MODE (See page 12).
2. Press the [TV MENU] key to select “LOAD DEFAULT”, and press the [ENTER] key to write initial values to the EEPROM.

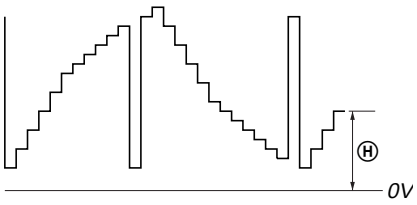
**Note:** It carries out, only when EEPROM (IC1451) is exchanged.

3. Press the [TV MENU] key to select “FOR FACTORY”, and press the [ENTER] key to enter the adjustment mode.
4. If entering the adjustment mode, press the [TV MENU] key to select item, and press the [ENTER] key to execute all adjustment items mentioned below.

#### 5-7-1. GAMMA 1 ADJUSTMENT

**Adjusting Procedure:**

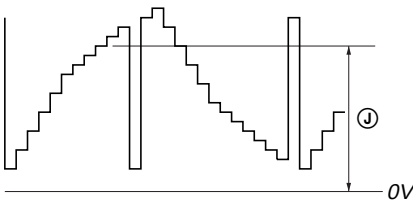
1. Connect an oscilloscope to the TP1959 on the TV board.
2. Adjust the [⏮] / [⏭] keys so that the Ⓗ level of the waveform on the oscilloscope is 2.1 ± 0.1 Vp-p.




#### 5-7-2. GAMMA 2 ADJUSTMENT

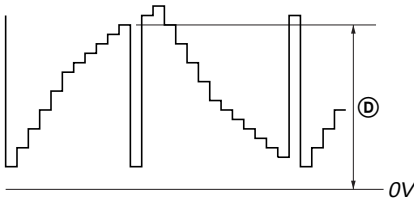
**Adjusting Procedure:**

1. Connect an oscilloscope to the TP1959 on the TV board.
2. Adjust the [⏮] / [⏭] keys so that the Ⓙ level of the waveform on the oscilloscope is 3.0 ± 0.1 Vp-p.



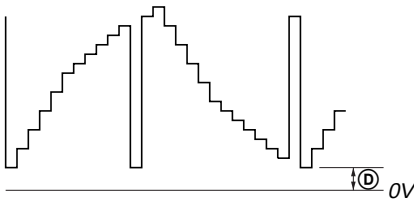
### 5-7-3. Y GAIN (LUMINANCE SIGNAL CONTRAST LEVEL) ADJUSTMENT

**Adjusting Procedure:**
1. Connect an oscilloscope to the TP1959 on the TV board.
2. Adjust the [I◄◄] / [►►I] keys so that the Ⓓ level of the waveform on the oscilloscope is 3.25 ± 0.1 Vp-p.



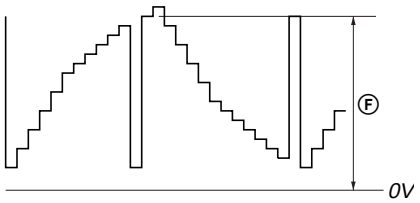

### 5-7-4. BLACK LIMIT (BLACK LIMITER LEVEL) ADJUSTMENT

**Adjusting Procedure:**
1. Connect an oscilloscope to the TP1959 on the TV board.
2. Adjust the [I◄◄] / [►►I] keys so that the Ⓔ level of the waveform on the oscilloscope is 1.0 ± 0.1 Vp-p.



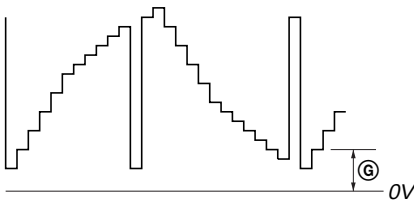

### 5-7-5. WHITE LIMIT (WHITE LIMITER LEVEL) ADJUSTMENT

**Adjusting Procedure:**
1. Connect an oscilloscope to the TP1959 on the TV board.
2. Adjust the [I◄◄] / [►►I] keys so that the Ⓕ level of the waveform on the oscilloscope is 3.9 ± 0.05 Vp-p.



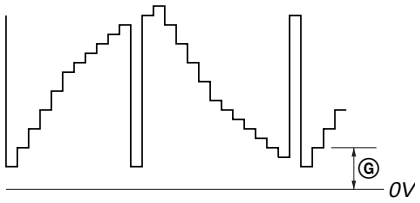

### 5-7-6. R-SUB BRT (R-CH SUB BRIGHT) ADJUSTMENT

**Adjusting Procedure:**
1. Connect an oscilloscope of 1 step voltage to the TP1958 on the TV board.
2. Adjust the [I◄◄] / [►►I] keys so that the Ⓖ level of the waveform on the oscilloscope is 1.0 ± 0.1 Vp-p.



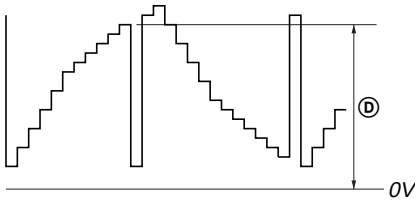

### 5-7-7. B-SUB BRT (B-CH SUB BRIGHT) ADJUSTMENT

**Adjusting Procedure:**
1. Connect an oscilloscope of 1 step voltage to the TP1960 on the TV board.
2. Adjust the [I◄◄] / [►►I] keys so that the Ⓖ level of the waveform on the oscilloscope is 1.0 ± 0.1 Vp-p.



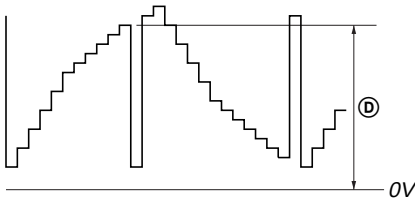

### 5-7-8. R-SUB CONT (R-CH SUB CONTRAST) ADJUSTMENT

**Adjusting Procedure:**
1. Connect an oscilloscope of 10 step voltage to the TP1958 on the TV board.
2. Adjust the [I◄◄] / [►►I] keys so that the Ⓓ level of the waveform on the oscilloscope is 3.25 ± 0.1 Vp-p.

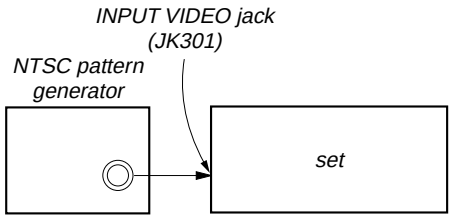



### 5-7-9. B-SUB CONT (B-CH SUB CONTRAST) ADJUSTMENT

**Adjusting Procedure:**
1. Connect an oscilloscope of 10 step voltage to the TP1960 on the TV board.
2. Adjust the [I◄◄] / [►►I] keys so that the Ⓓ level of the waveform on the oscilloscope is 3.25 ± 0.1 Vp-p.



**Connection: (5-7-10 to 5-7-12)**




### 5-7-10. VCO FREE RUN ADJUSTMENT

**Condition:**
Input the NTSC video signal (10 step (no burst)) (1 Vp-p 75 Ω) to the INPUT VIDEO jack (JK301) on the MAIN board from NTSC pattern generator.

**Adjusting Procedure:**
Adjust the |◀◀ / ▶▶| keys so that a screen on the monitor may become normal.

### 5-7-11. PLL/V POS ADJUSTMENT

**Condition:**
Input the NTSC video signal (monoscope) (1 Vp-p 75 Ω) to the INPUT VIDEO jack (JK301) on the MAIN board from NTSC pattern generator.

**Adjusting Procedure:**
Press the |◀◀ / ▶▶| keys to adjust so that the position of screen on the monitor becomes vertically symmetric.

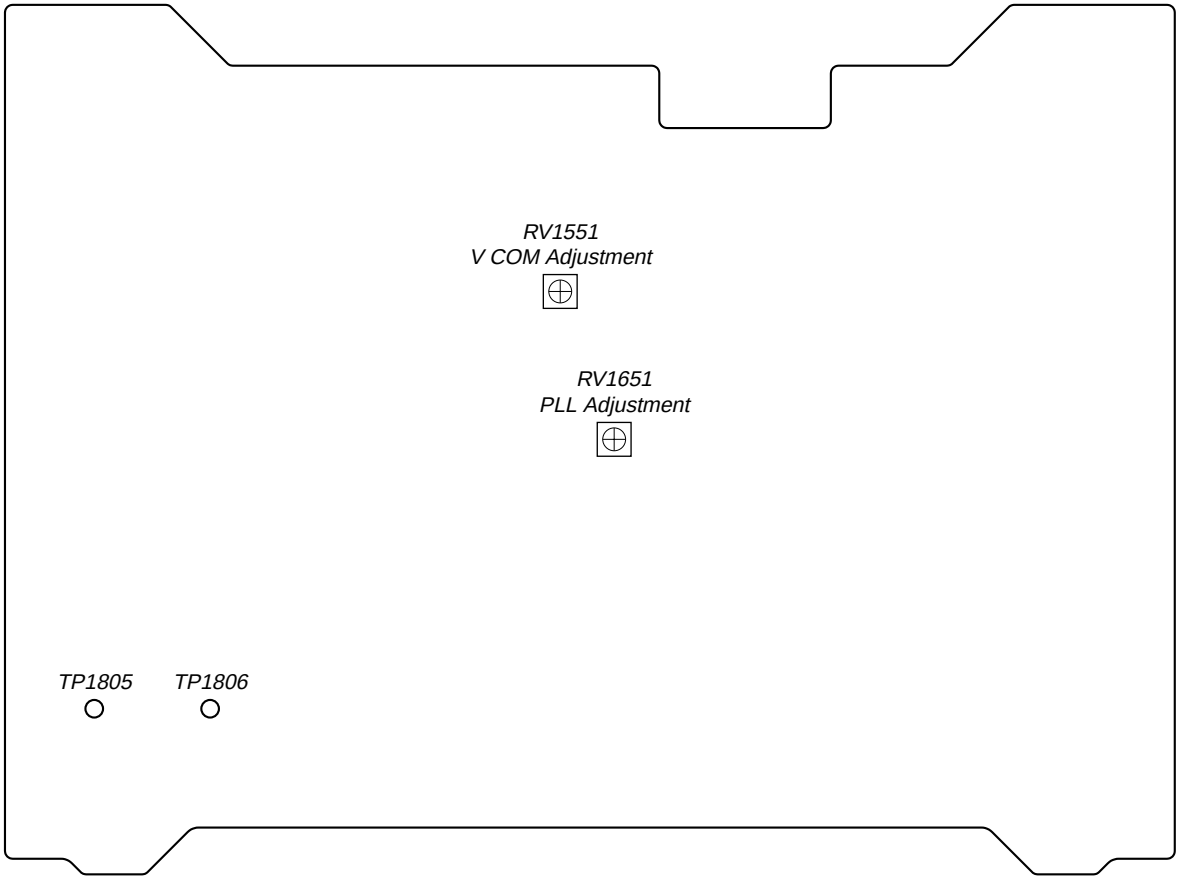
### 5-7-12. H POS ADJUSTMENT

**Condition:**
Input the NTSC video signal (monoscope) (1 Vp-p 75 Ω) to the INPUT VIDEO jack (JK301) on the MAIN board from NTSC pattern generator.

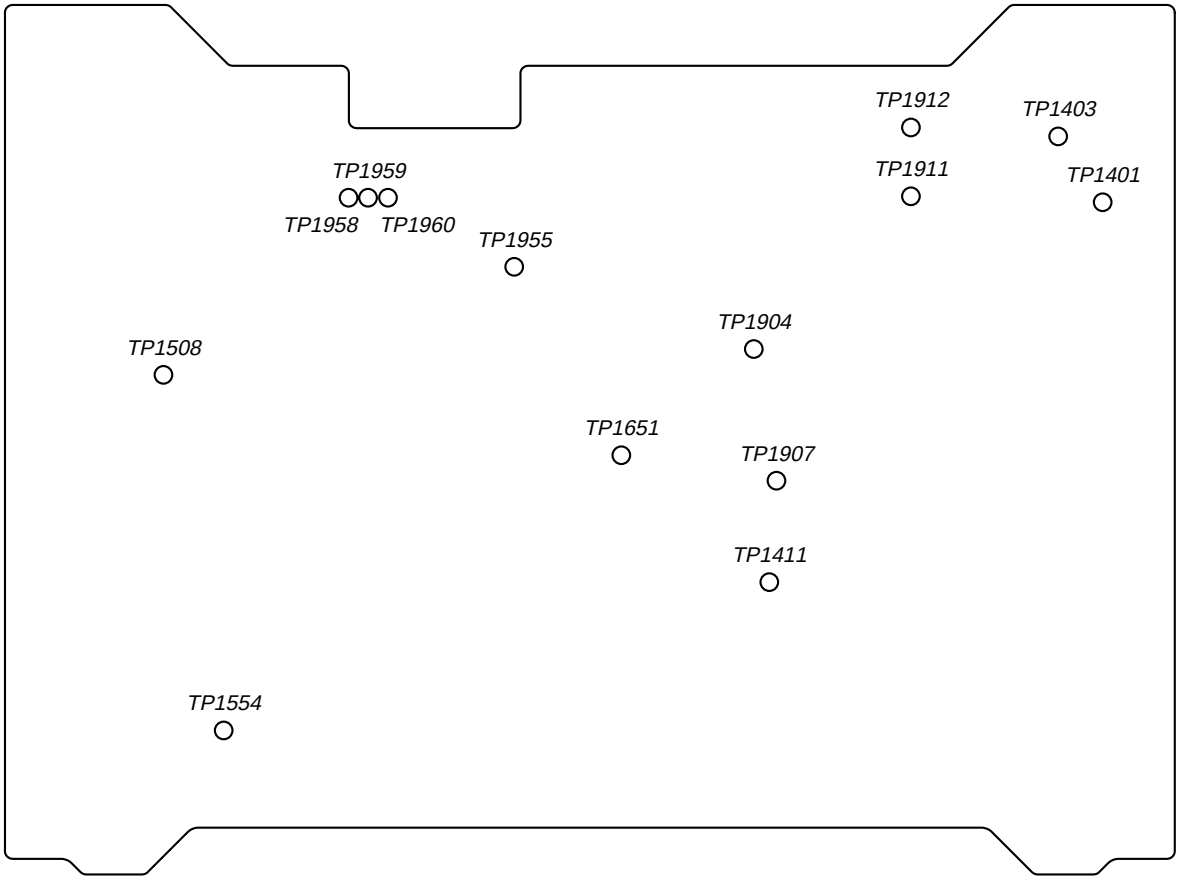
**Adjusting Procedure:**
Press the |◀◀ / ▶▶| keys to adjust so that the position of screen on the monitor becomes horizontally symmetric.

**Connecting and Adjustment Location:**

**– TV BOARD (Component Side) –**

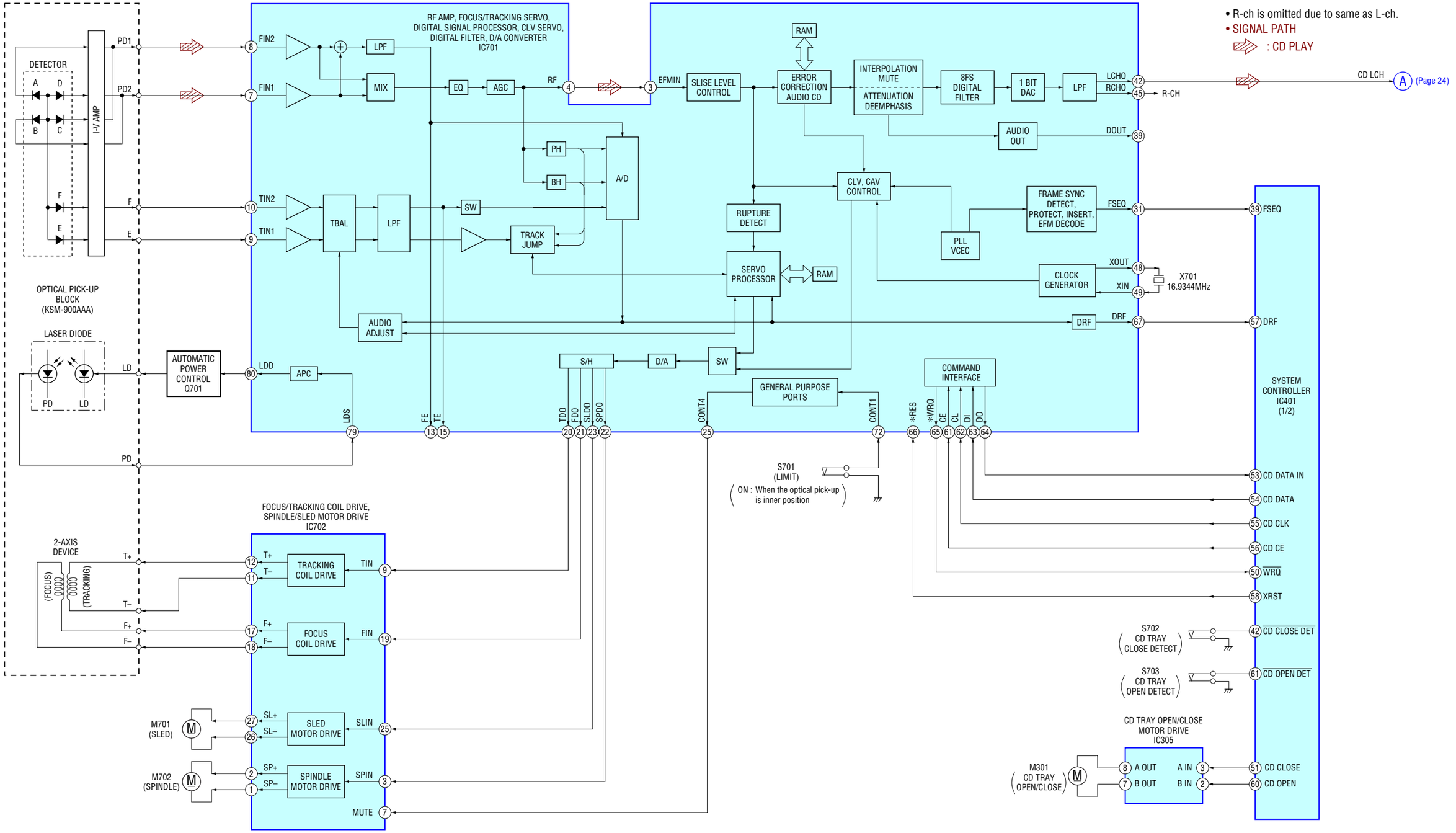



**– TV BOARD (Conductor Side) –**

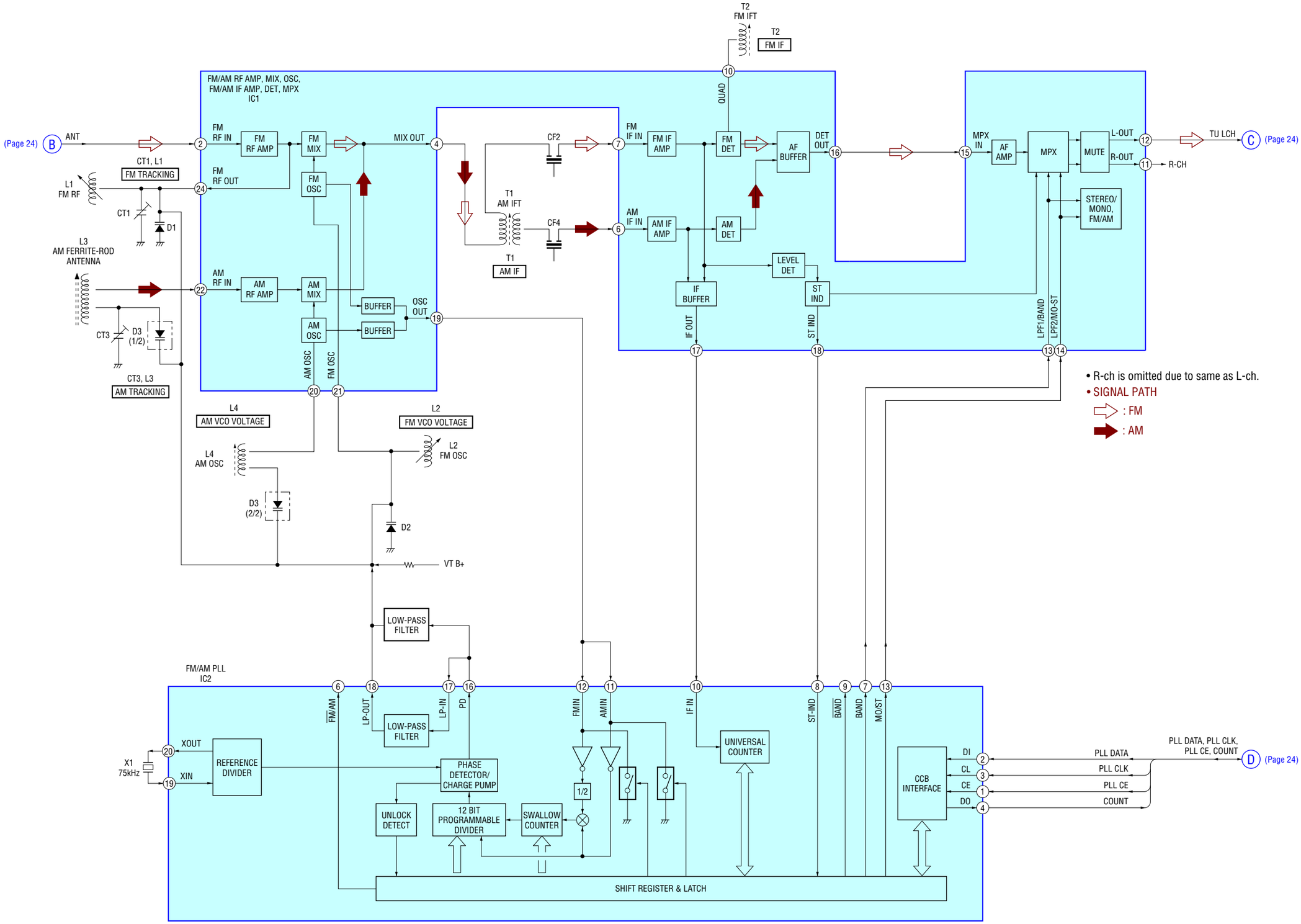


# SECTION 6
# DIAGRAMS

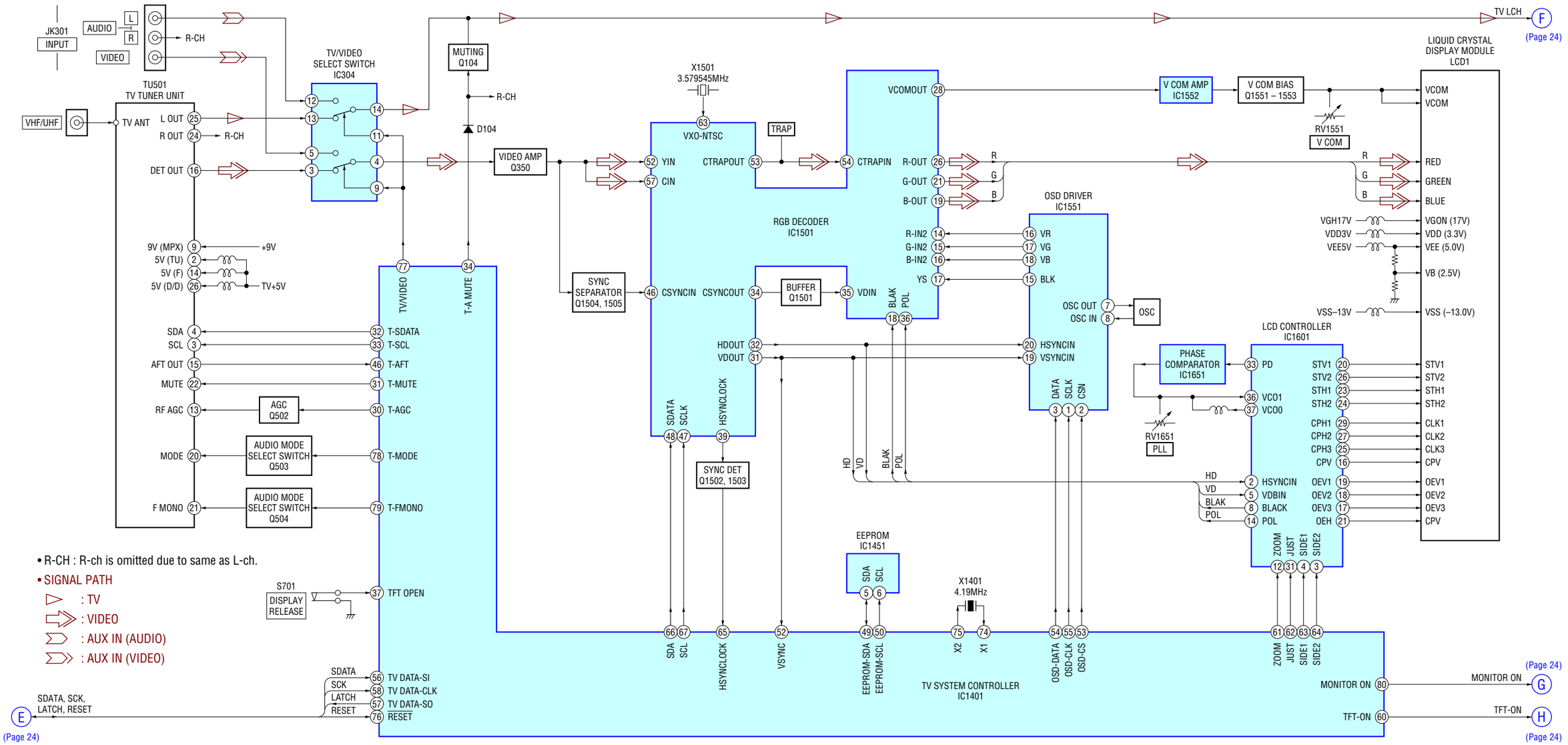
## 6-1. BLOCK DIAGRAM – CD Section –



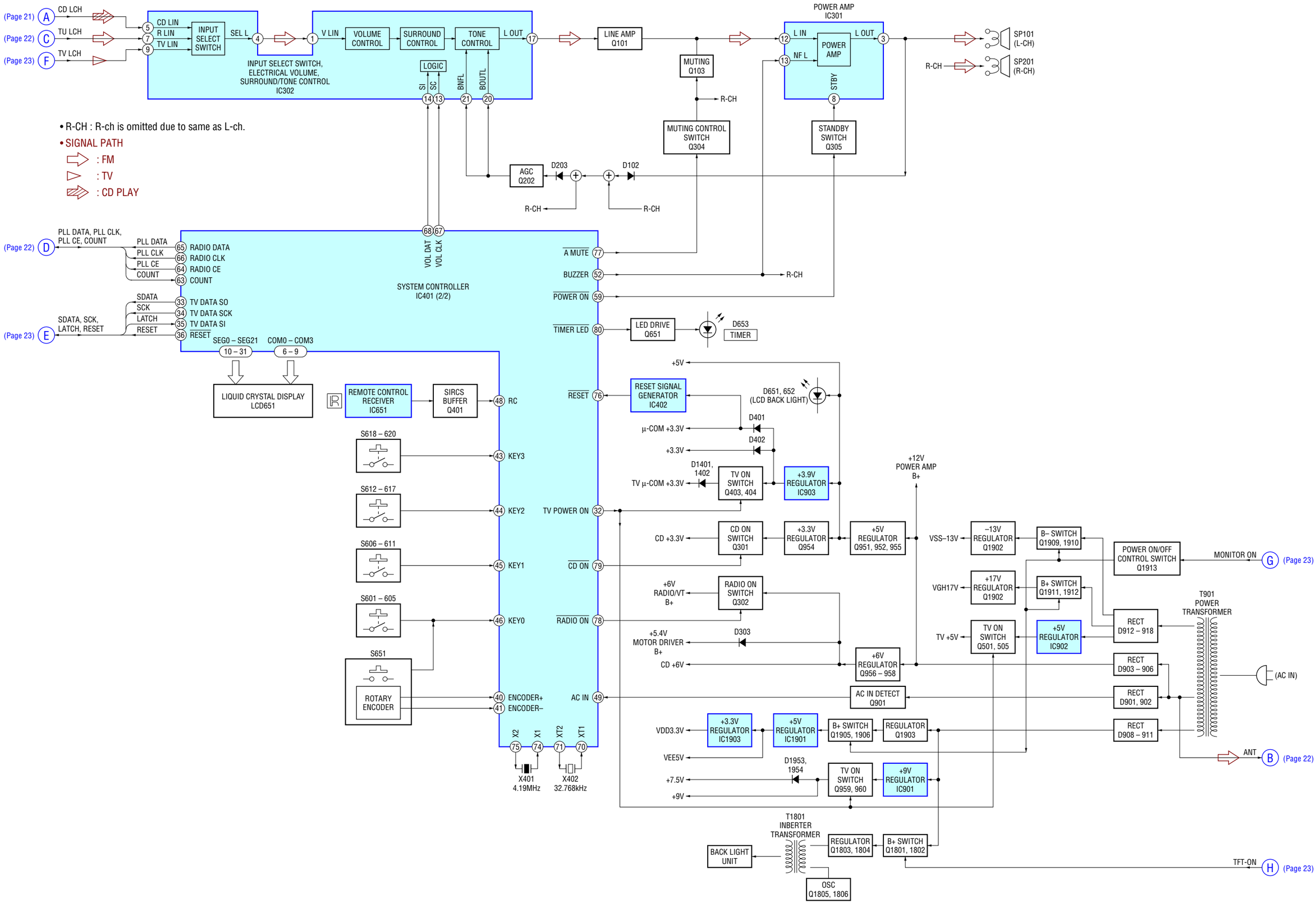
## 6-2. BLOCK DIAGRAM – TUNER Section –



## 6-3. BLOCK DIAGRAM – MONITOR Section –



## 6-4. BLOCK DIAGRAM – MAIN Section –



## 6-5. NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

**Note on Printed Wiring Boards:**

- ○——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- : indicates side identified with part number.
- ● : Through hole.
- △ : internal component.
- : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

| Caution: | |
|---|---|
| Pattern face side: (Conductor Side) | Parts on the pattern face side seen from the pattern face are indicated. |
| Parts face side: (Component Side) | Parts on the parts face side seen from the parts face are indicated. |

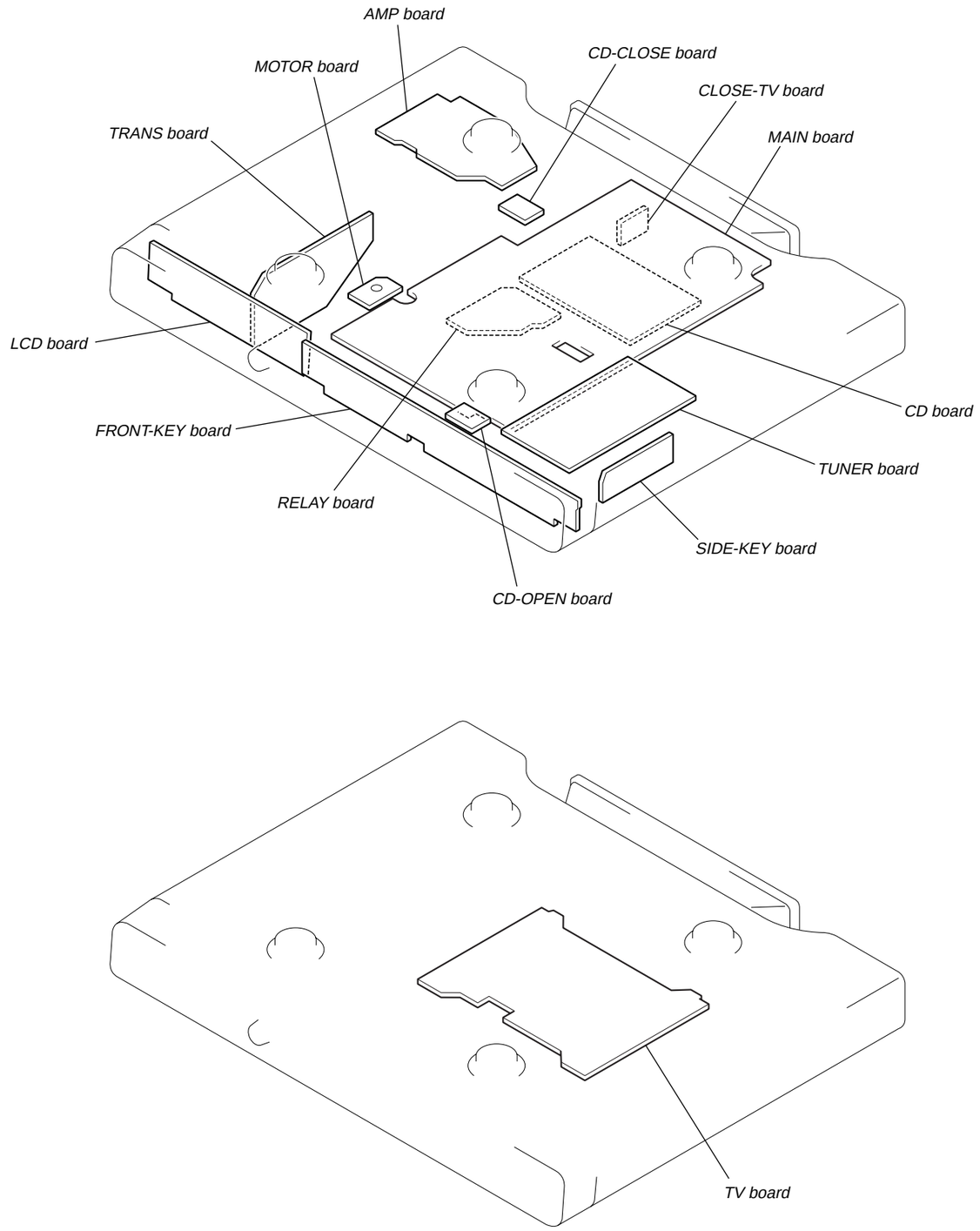
**Note on Schematic Diagram:**

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- : nonflammable resistor.
- : panel designation.

| **Note:** | **Note:** |
|---|---|
| The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified. | Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié. |

- : B+ Line.
- : B– Line.
- : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  ( ) : AM
  { } : TV
  ⟨⟨ ⟩⟩ : VIDEO (COLOR BAR SIGNAL INPUT)
  [ ] : CD PLAY
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  : FM
  : AM
  : TV
  : VIDEO
  : AUX IN (AUDIO)
  : AUX IN (VIDEO)
  : CD PLAY

- **Circuit Boards Location**

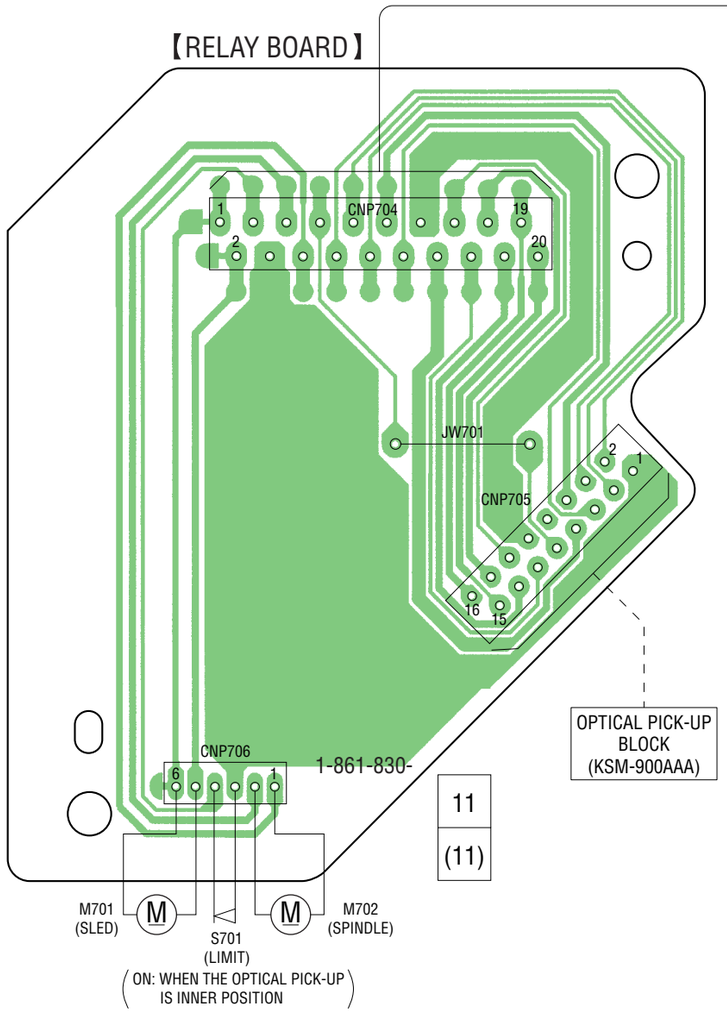


## 6-6. PRINTED WIRING BOARDS – CD Section –

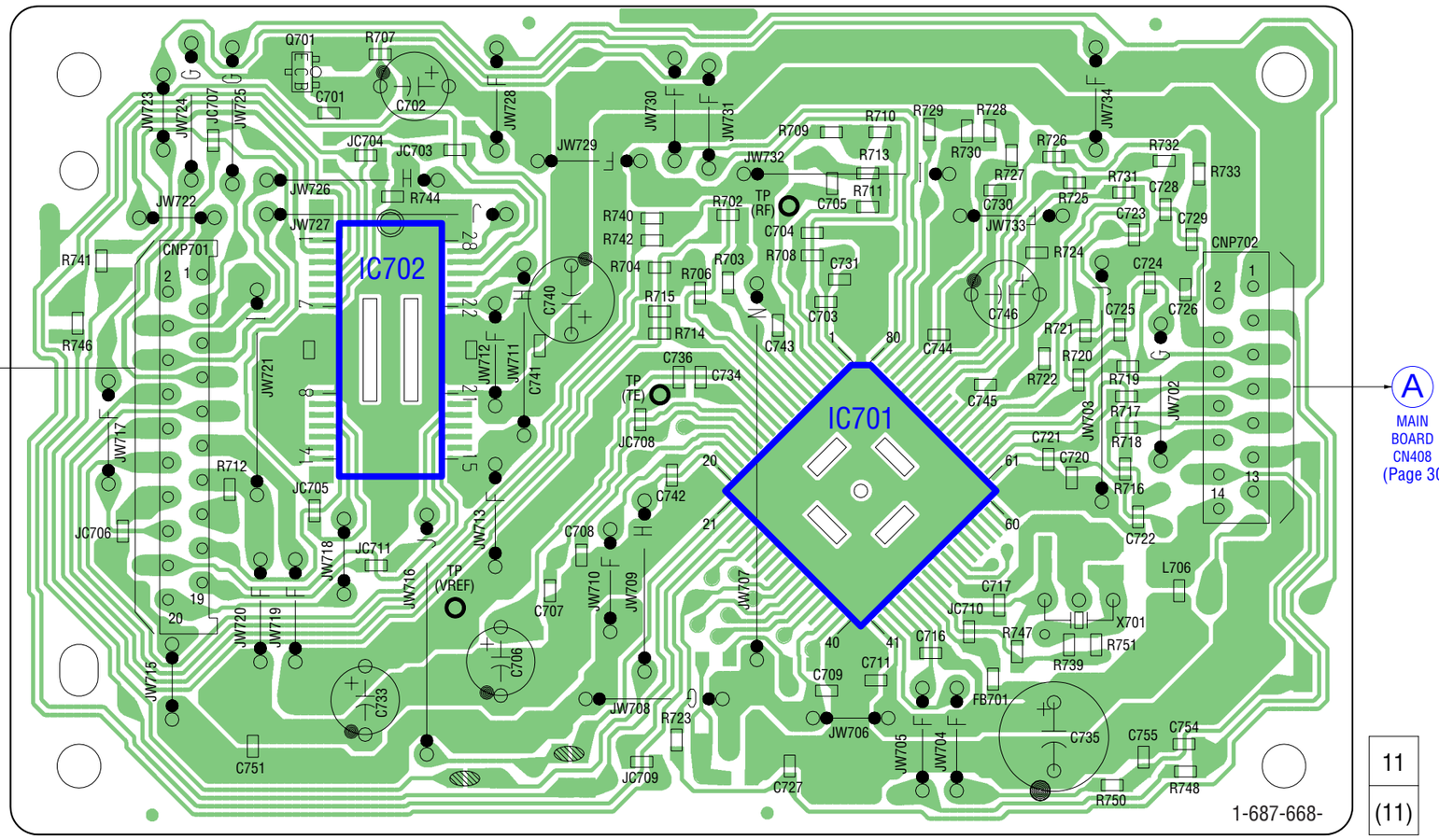
• See page 25 for Circuit Boards Location.

:Uses unleaded solder.

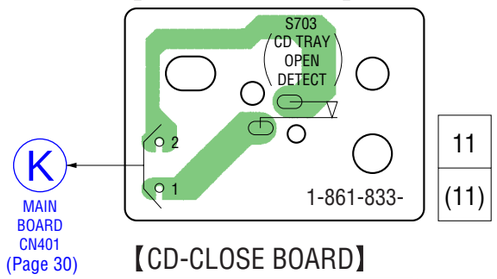
【RELAY BOARD】



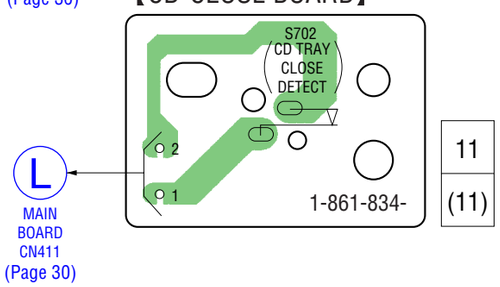

【CD BOARD】



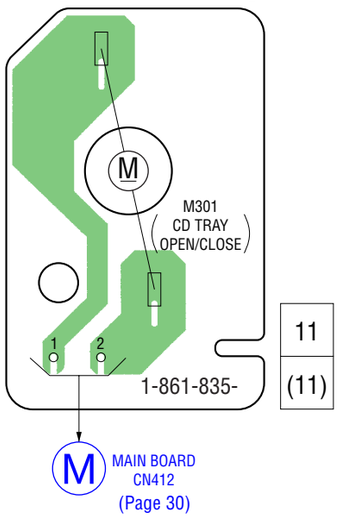

【CD-OPEN BOARD】




【CD-CLOSE BOARD】

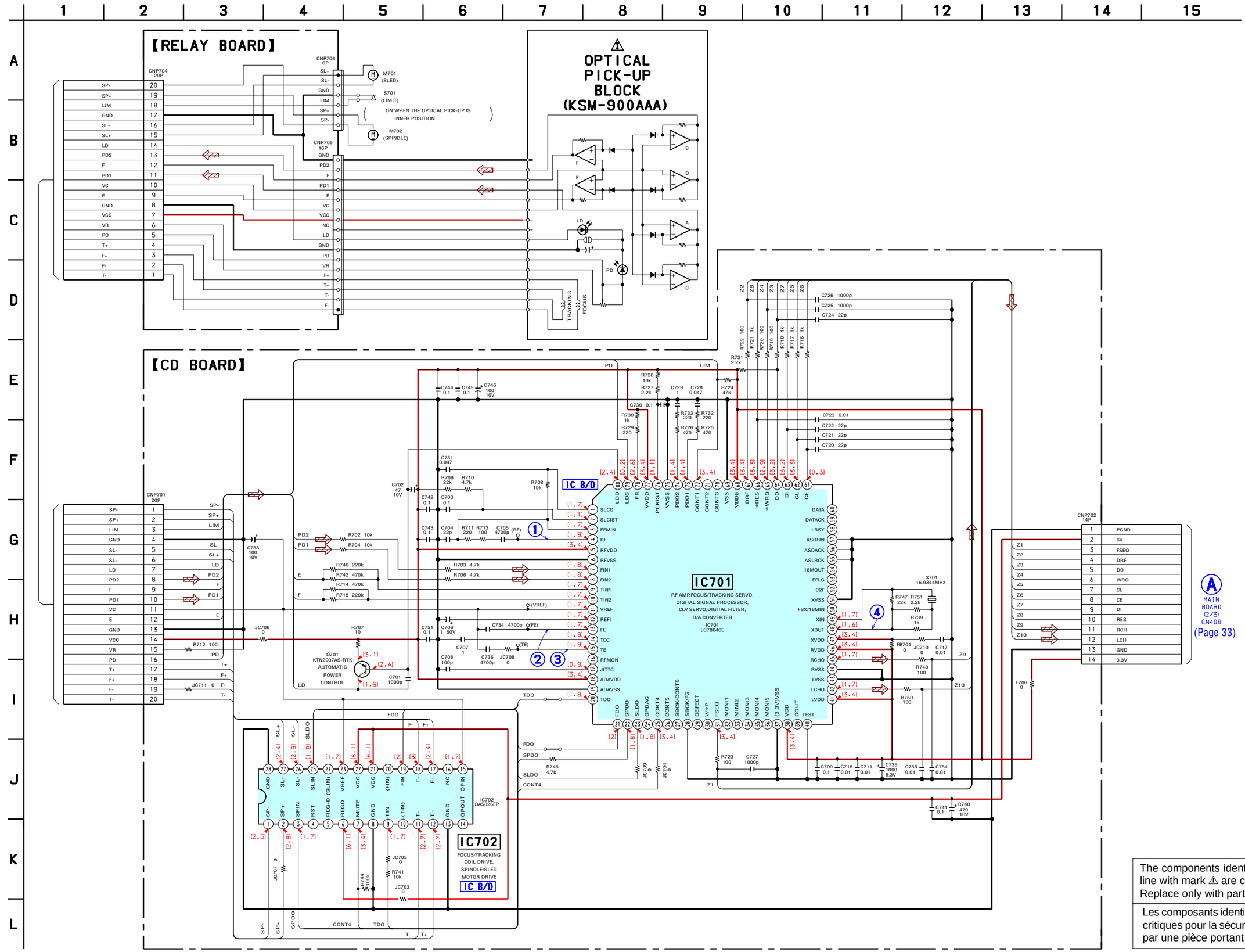



【MOTOR BOARD】



## 6-7. SCHEMATIC DIAGRAM – CD Section –

• See page 42 for Waveforms. • See page 43 for IC Block Diagrams.




The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

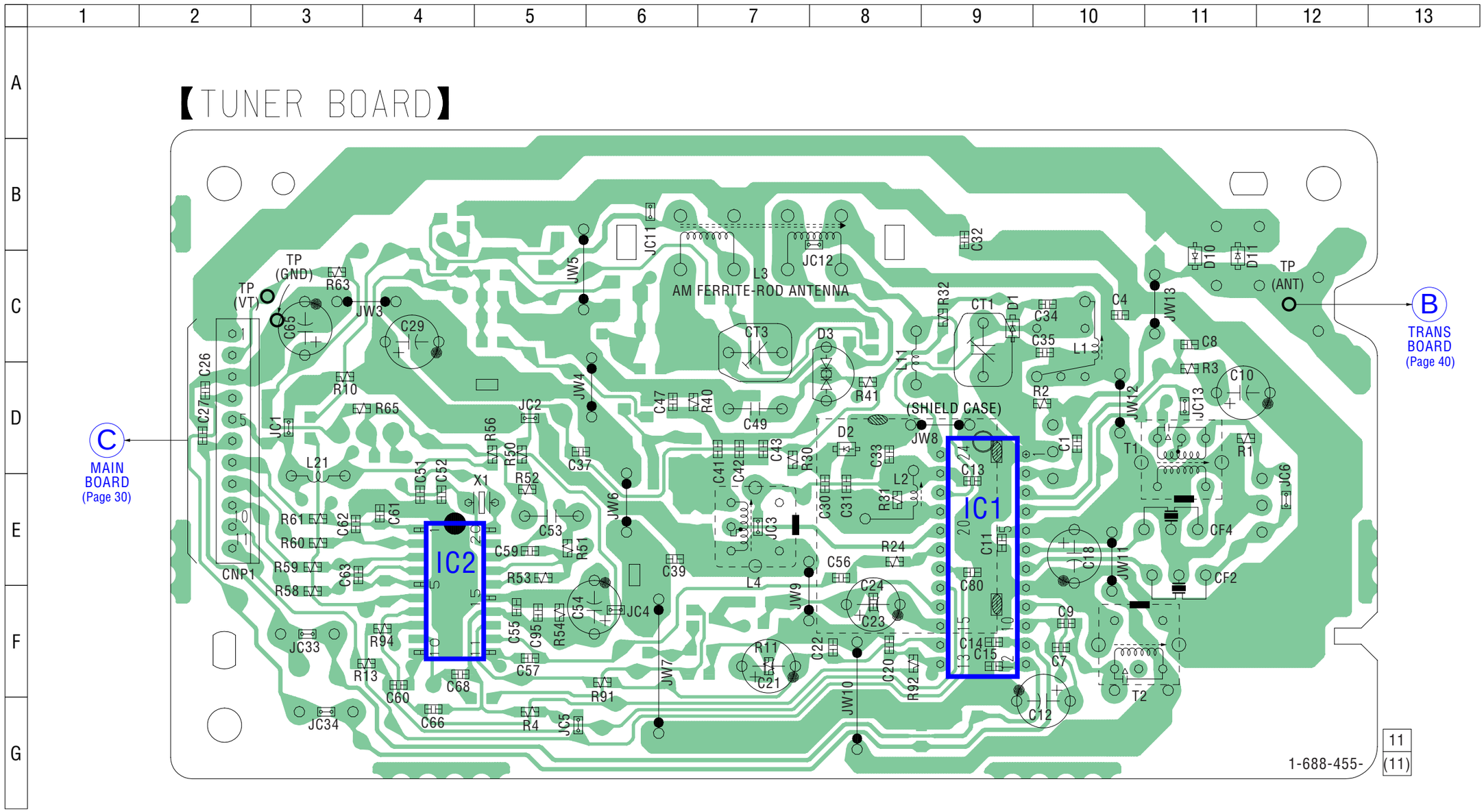
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

## 6-8. PRINTED WIRING BOARD – TUNER Section –

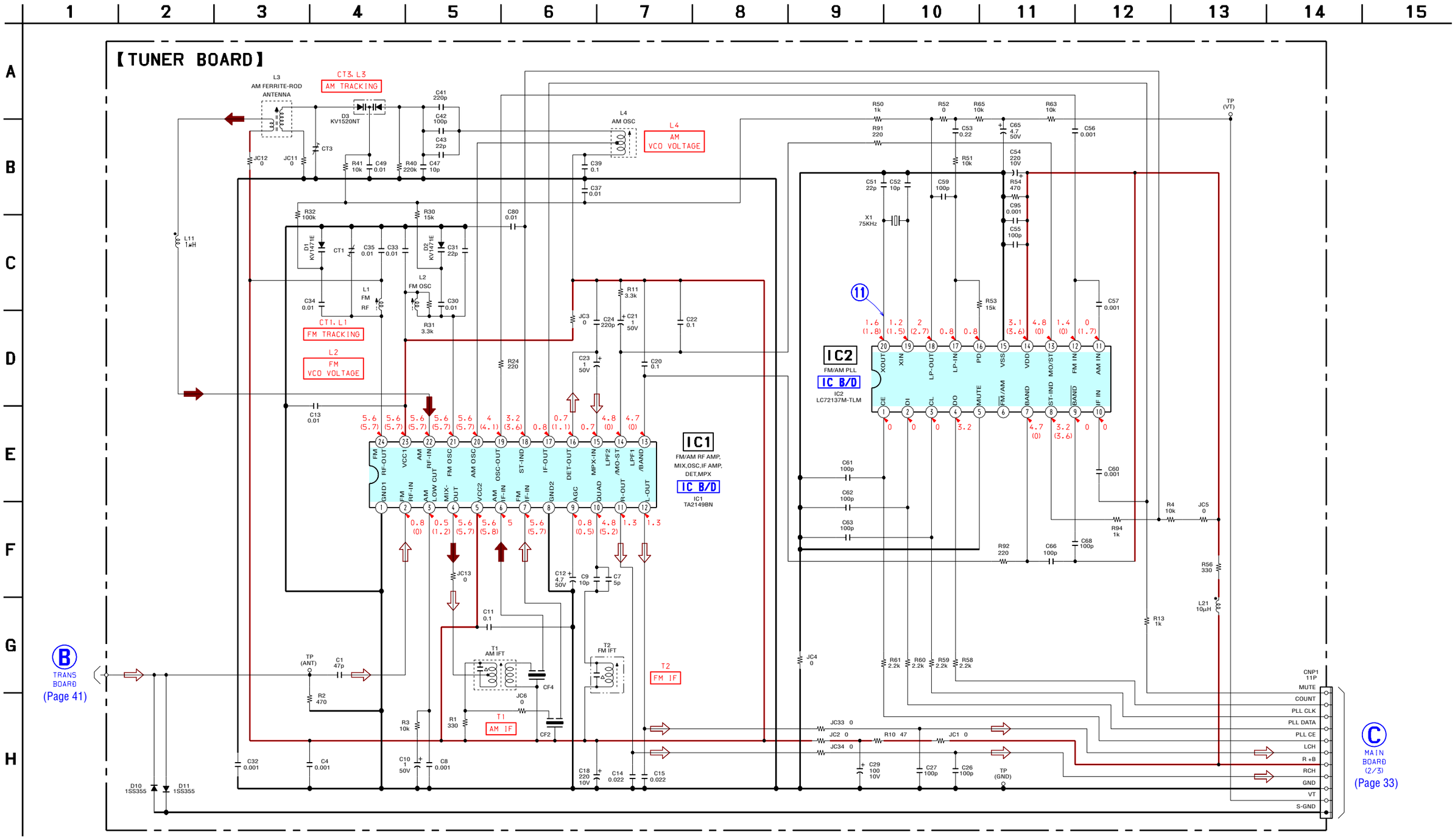
• See page 25 for Circuit Boards Location. :Uses unleaded solder.

- **Semiconductor Location**

| Ref. No. | Location |
|---|---|
| D1 | C-9 |
| D2 | D-8 |
| D3 | D-8 |
| D10 | C-11 |
| D11 | C-11 |
| IC1 | E-9 |
| IC2 | F-4 |



## 6-9. SCHEMATIC DIAGRAM – TUNER Section – • See page 42 for Waveform. • See page 43 for IC Block Diagrams.

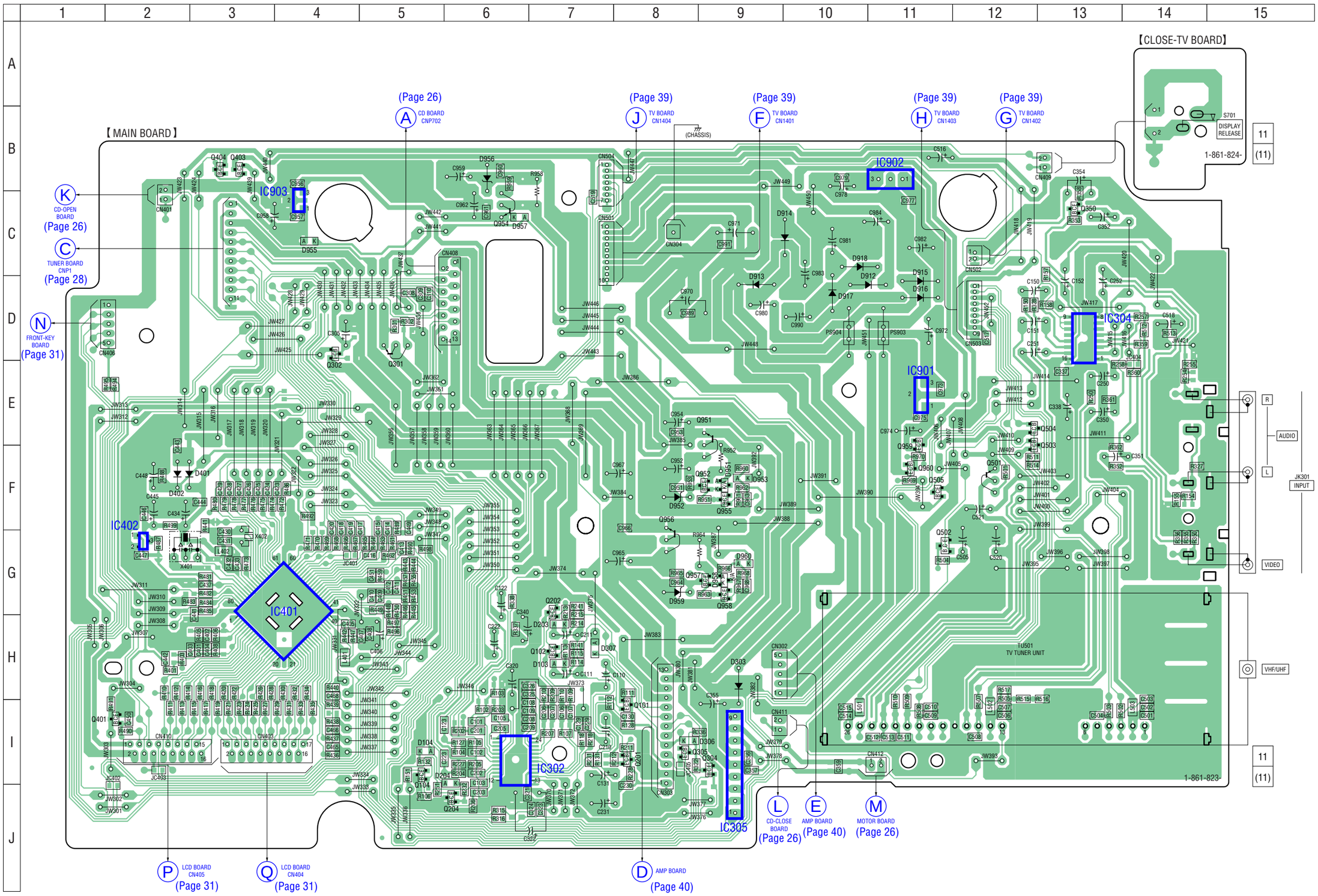


## 6-10. PRINTED WIRING BOARDS – MAIN Section –

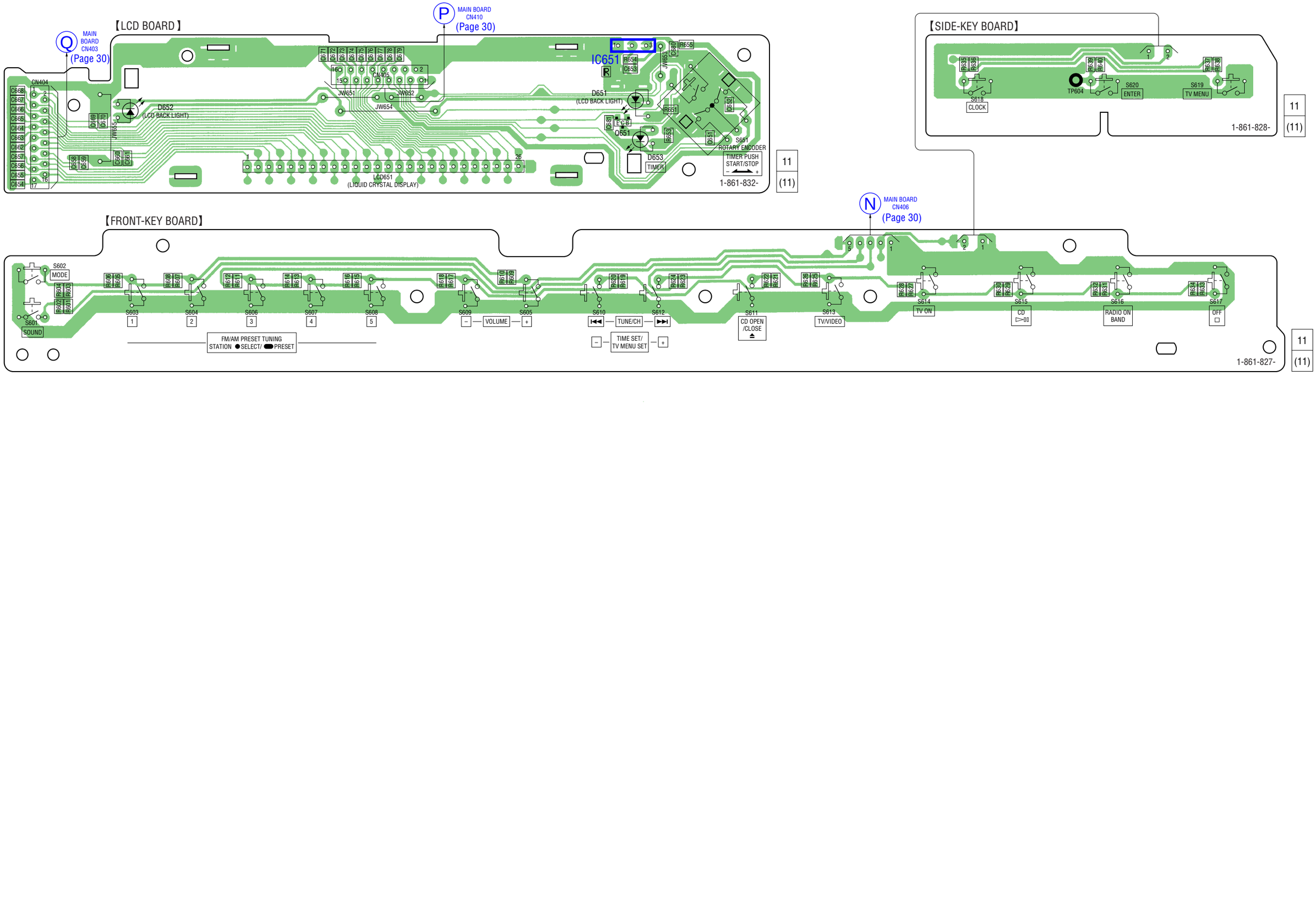
• See page 25 for Circuit Boards Location. :Uses unleaded solder.

• **Semiconductor Location**

| Ref. No. | Location |
|---|---|
| D103 | H-7 |
| D104 | I-5 |
| D203 | H-7 |
| D204 | I-6 |
| D303 | H-9 |
| D306 | I-8 |
| D307 | H-7 |
| D401 | F-2 |
| D402 | F-2 |
| D912 | D-11 |
| D913 | D-9 |
| D914 | C-10 |
| D915 | D-11 |
| D916 | D-11 |
| D917 | D-10 |
| D918 | C-10 |
| D951 | F-9 |
| D952 | F-8 |
| D953 | F-9 |
| D955 | C-4 |
| D956 | B-6 |
| D957 | C-6 |
| D958 | G-9 |
| D959 | G-8 |
| D960 | G-9 |
| IC302 | I-6 |
| IC304 | D-13 |
| IC305 | I-9 |
| IC401 | G-4 |
| IC402 | G-2 |
| IC901 | E-11 |
| IC902 | B-11 |
| IC903 | C-4 |
| Q101 | I-8 |
| Q102 | H-7 |
| Q104 | I-5 |
| Q201 | I-8 |
| Q202 | G-7 |
| Q204 | J-6 |
| Q301 | D-5 |
| Q302 | D-4 |
| Q304 | I-9 |
| Q305 | I-8 |
| Q350 | C-13 |
| Q401 | I-2 |
| Q403 | B-3 |
| Q404 | B-3 |
| Q501 | F-12 |
| Q502 | G-11 |
| Q503 | E-12 |
| Q504 | E-12 |
| Q505 | F-11 |
| Q951 | E-9 |
| Q952 | F-9 |
| Q954 | C-6 |
| Q955 | F-9 |
| Q956 | G-8 |
| Q957 | G-9 |
| Q958 | G-9 |
| Q959 | F-11 |
| Q960 | F-11 |

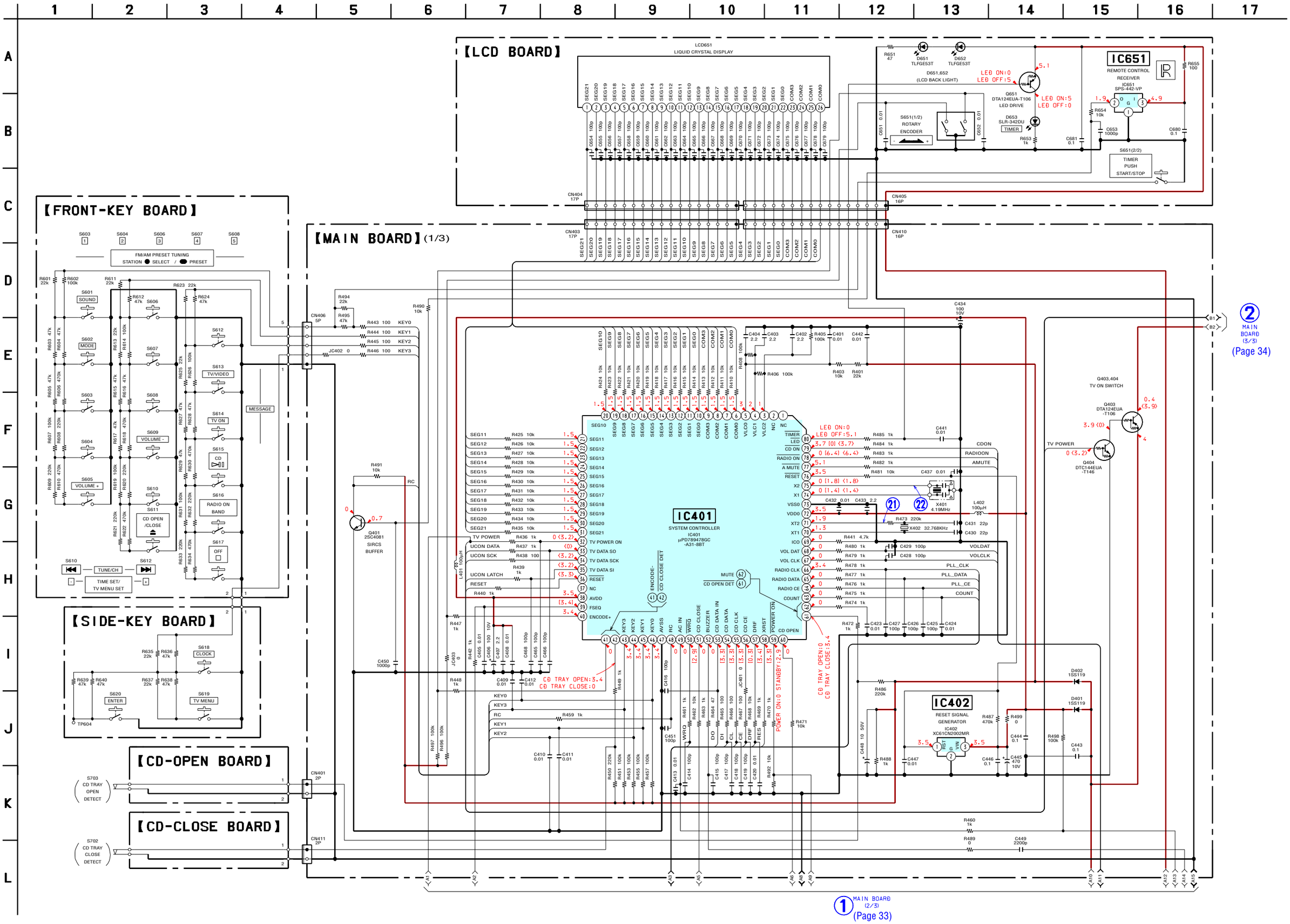


## 6-11. PRINTED WIRING BOARDS – PANEL Section – • See page 25 for Circuit Boards Location. :Uses unleaded solder.



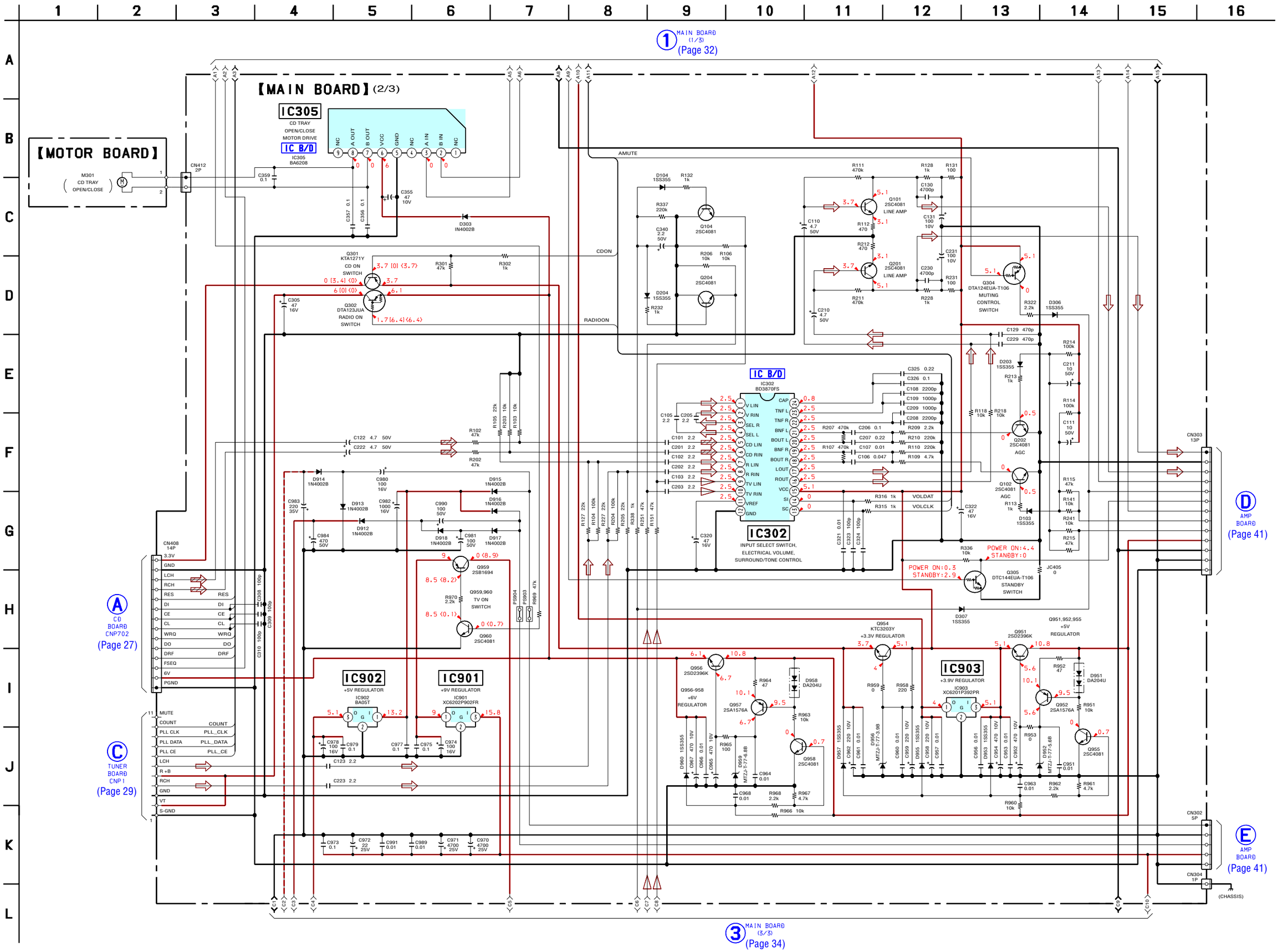
## 6-12. SCHEMATIC DIAGRAM – MAIN Section (1/3) –

• See page 42 for Waveforms. • See page 48 for IC Pin Function Description.

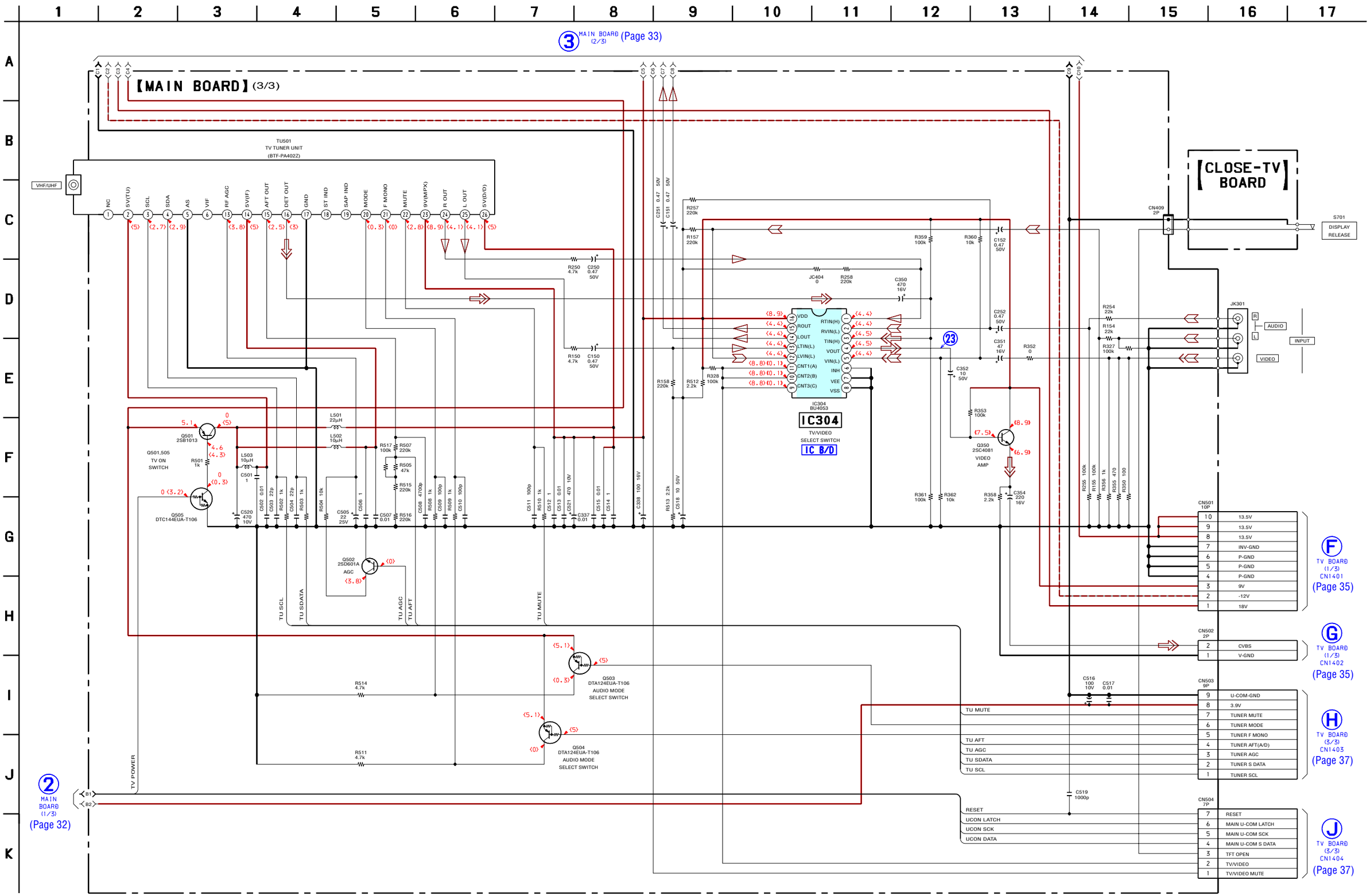


## 6-13. SCHEMATIC DIAGRAM – MAIN Section (2/3) –

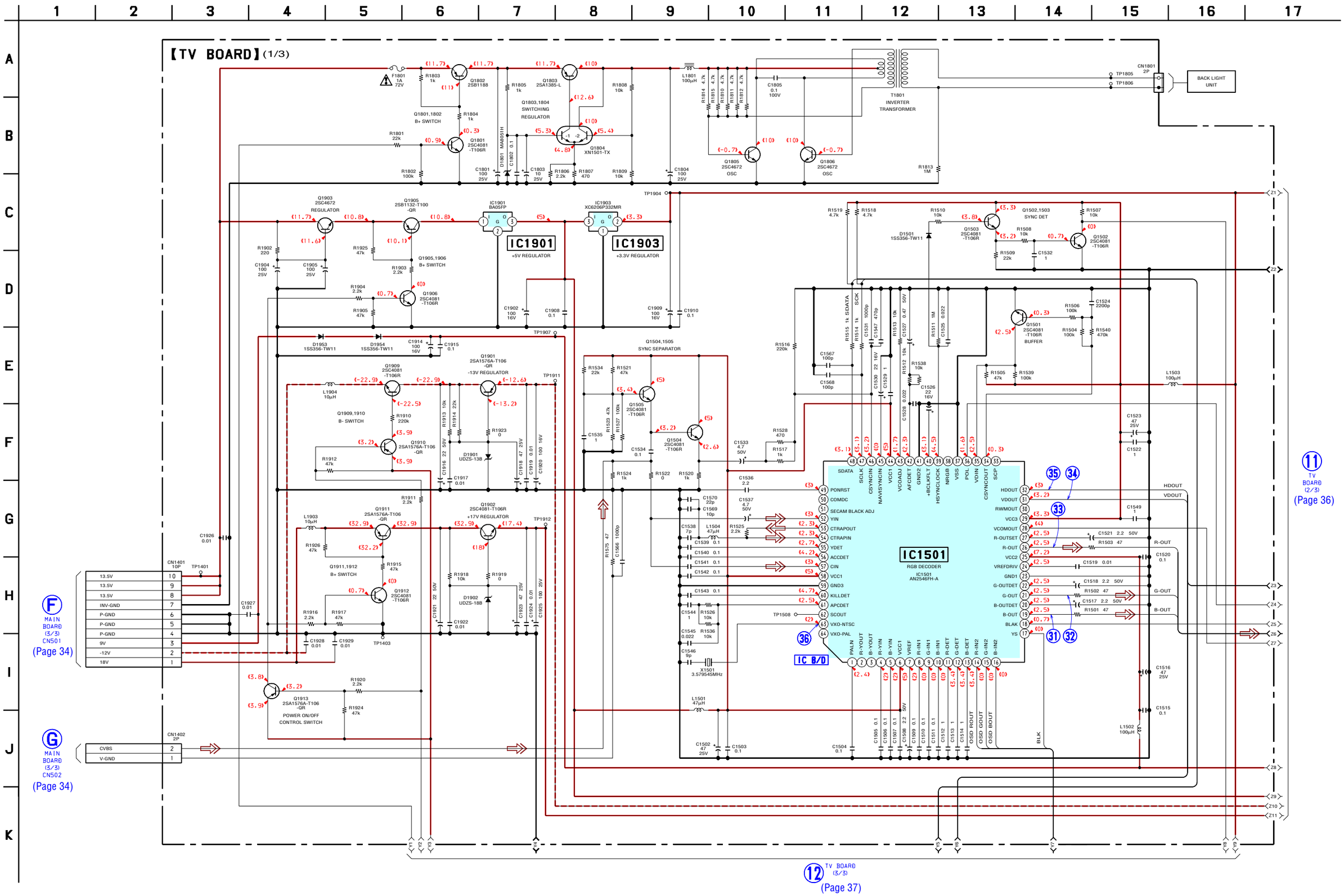
• See page 43 for IC Block Diagrams.



## 6-14. SCHEMATIC DIAGRAM – MAIN Section (3/3) – • See page 42 for Waveform. • See page 43 for IC Block Diagram.

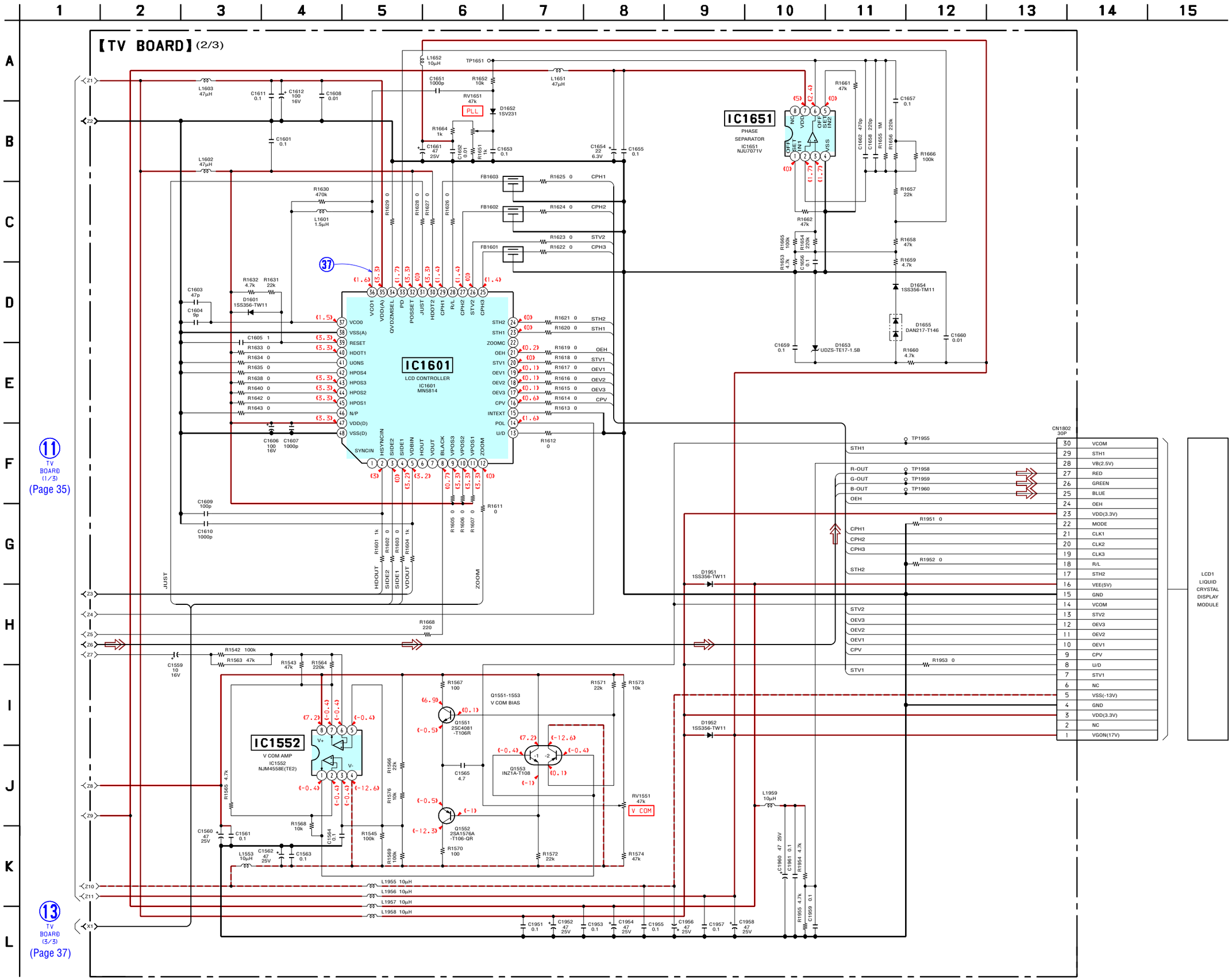


## 6-15. SCHEMATIC DIAGRAM – MONITOR Section (1/3) – • See page 42 for Waveforms. • See page 43 for IC Block Diagram.




| | |
|---|---|
| The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified. | Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié. |

## 6-16. SCHEMATIC DIAGRAM – MONITOR Section (2/3) – • See page 42 for Waveform. • See page 48 for IC Pin Function Description.



## 6-17. SCHEMATIC DIAGRAM – MONITOR Section (3/3) –

• See page 42 for Waveform. • See page 43 for IC Block Diagram. • See page 48 for IC Pin Function Description.

【TV BOARD】(3/3)

12 TV BOARD (1/3) (Page 35)

13 TV BOARD (2/3) (Page 36)

H MAIN BOARD (3/3) CN503 (Page 34)

J MAIN BOARD (3/3) CN504 (Page 34)

CN1403 9P

| | |
|---|---|
| U-COM GND | 9 |
| 3.9V | 8 |
| TUNER MUTE | 7 |
| TUNER MODE | 6 |
| TUNER F MONO | 5 |
| TUNER AFT(A/D) | 4 |
| TUNER AGC | 3 |
| TUNER S DATA | 2 |
| TUNER SCL | 1 |

CN1404 7P

| | |
|---|---|
| RESET | 7 |
| MAIN U-COM LATCH | 6 |
| MAIN U-COM CLK | 5 |
| NAIN U-COM S DATA | 4 |
| TFT OPEN | 3 |
| TV/VIDEO | 2 |
| TV/VIDEO MUTE | 1 |

**IC1401**
TV SYSTEM CONTROLLER
IC1401
µPD789477GC
-A45-8BT

**IC1551**
IC B/D
IC1551
µPD6467GR
-546-E1

**IC1451**
EEPROM
IC1451
CAT24WC04JI-1.8
-TE13

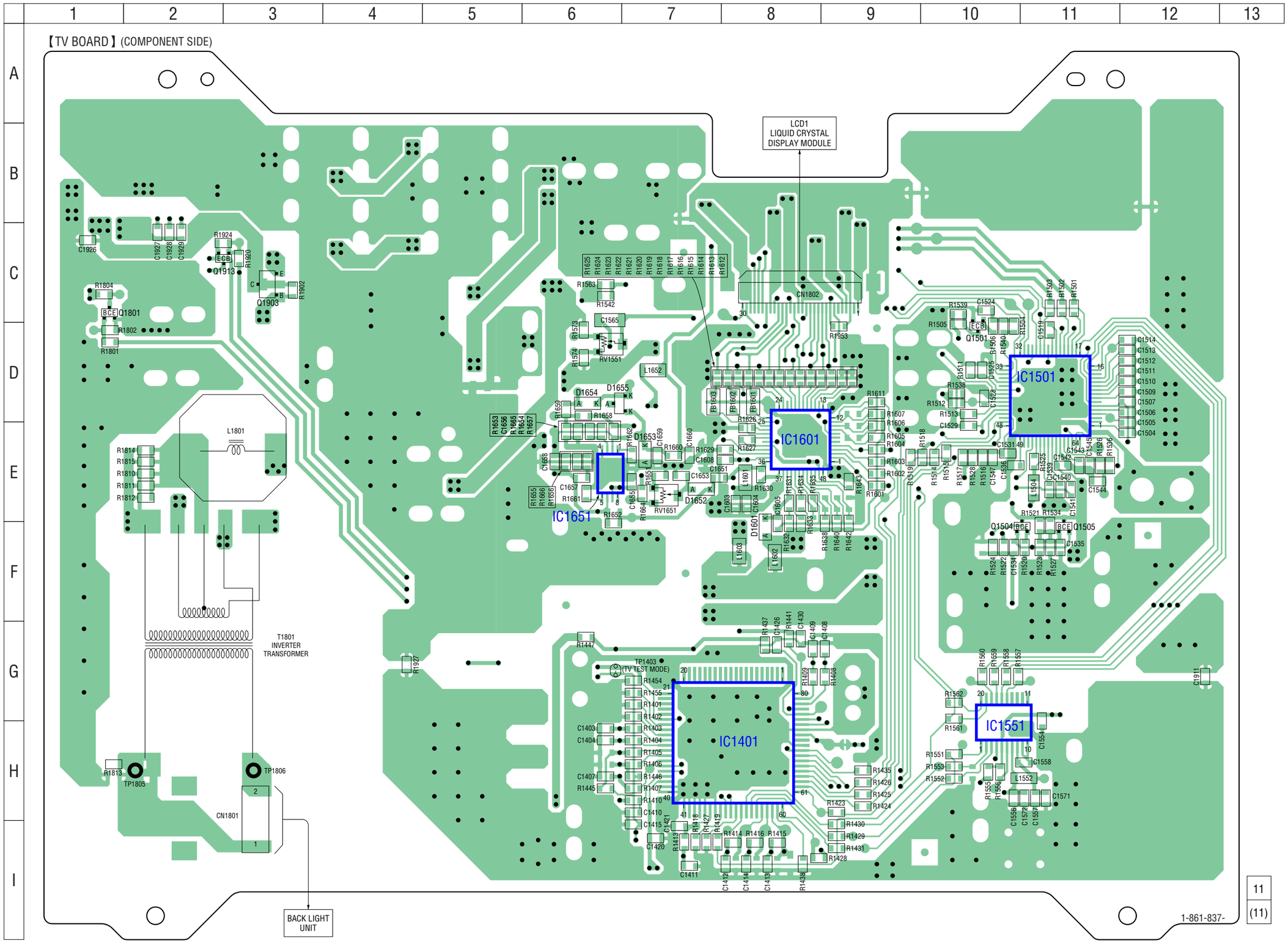
## 6-18. PRINTED WIRING BOARD – MONITOR Section (Component Side) –

• See page 25 for Circuit Boards Location.

:Uses unleaded solder.

- **Semiconductor Location**

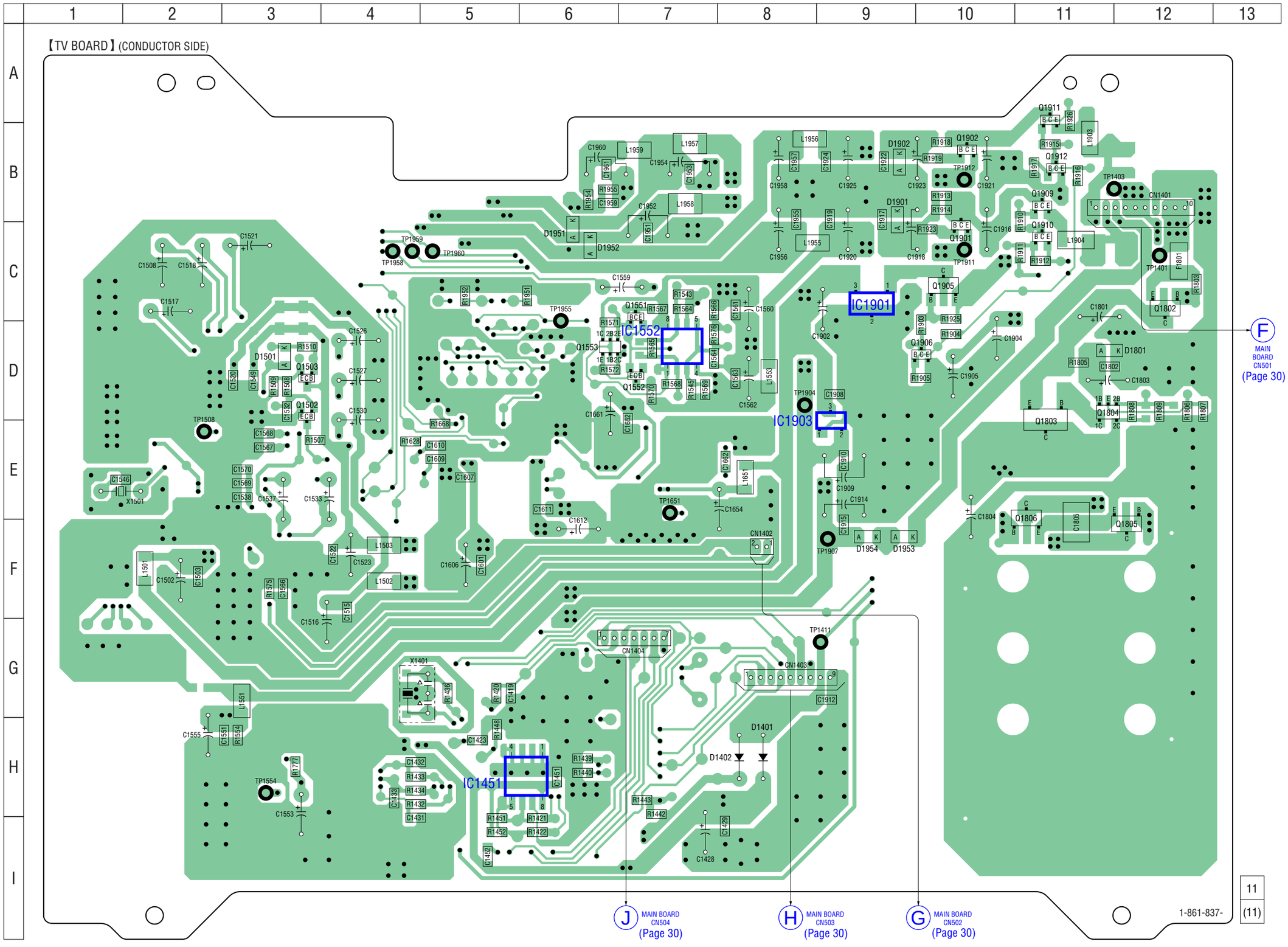
| Ref. No. | Location |
|---|---|
| D1601 | F-8 |
| D1652 | E-7 |
| D1653 | E-7 |
| D1654 | D-6 |
| D1655 | D-6 |
| IC1401 | H-8 |
| IC1501 | D-11 |
| IC1551 | H-10 |
| IC1601 | E-8 |
| IC1651 | E-6 |
| Q1501 | D-10 |
| Q1504 | F-11 |
| Q1505 | F-11 |
| Q1801 | C-1 |
| Q1903 | C-3 |
| Q1913 | C-3 |



## 6-19. PRINTED WIRING BOARD – MONITOR Section (Conductor Side) –

• See page 25 for Circuit Boards Location.

:Uses unleaded solder.




- **Semiconductor Location**

| Ref. No. | Location |
|---|---|
| D1401 | H-8 |
| D1402 | H-8 |
| D1501 | D-3 |
| D1801 | D-11 |
| D1901 | B-9 |
| D1902 | B-9 |
| D1951 | C-6 |
| D1952 | C-6 |
| D1953 | F-9 |
| D1954 | F-9 |
| IC1451 | H-6 |
| IC1552 | D-7 |
| IC1901 | C-9 |
| IC1903 | E-9 |
| Q1502 | D-3 |
| Q1503 | D-3 |
| Q1551 | C-7 |
| Q1552 | D-7 |
| Q1553 | D-6 |
| Q1802 | C-12 |
| Q1803 | E-11 |
| Q1804 | D-11 |
| Q1805 | F-12 |
| Q1806 | E-11 |
| Q1901 | C-10 |
| Q1902 | B-10 |
| Q1905 | C-10 |
| Q1906 | D-10 |
| Q1909 | B-11 |
| Q1910 | C-11 |
| Q1911 | A-11 |
| Q1912 | B-11 |

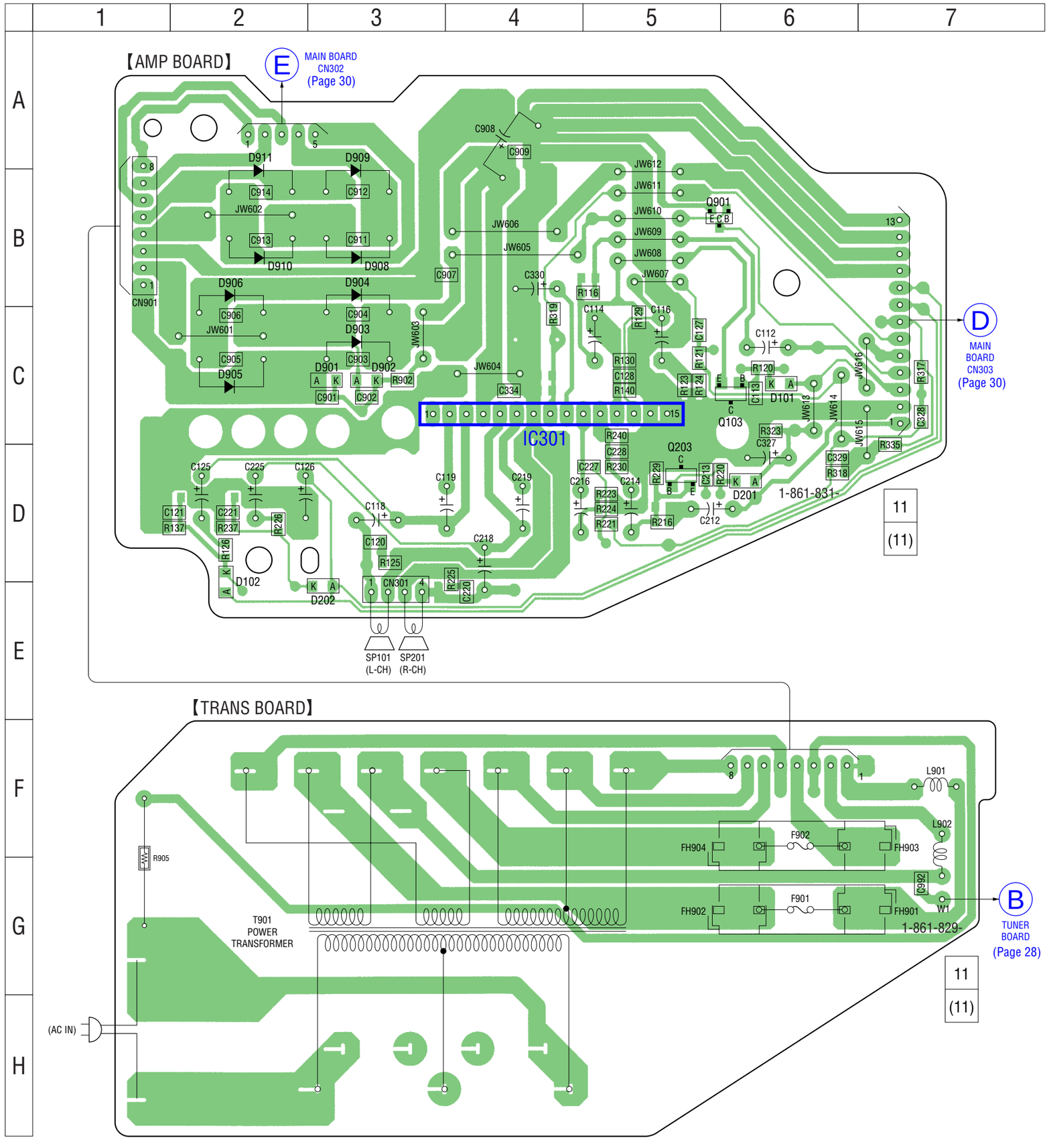
## 6-20. PRINTED WIRING BOARDS – AMP/POWER SUPPLY Section –

• See page 25 for Circuit Boards Location.

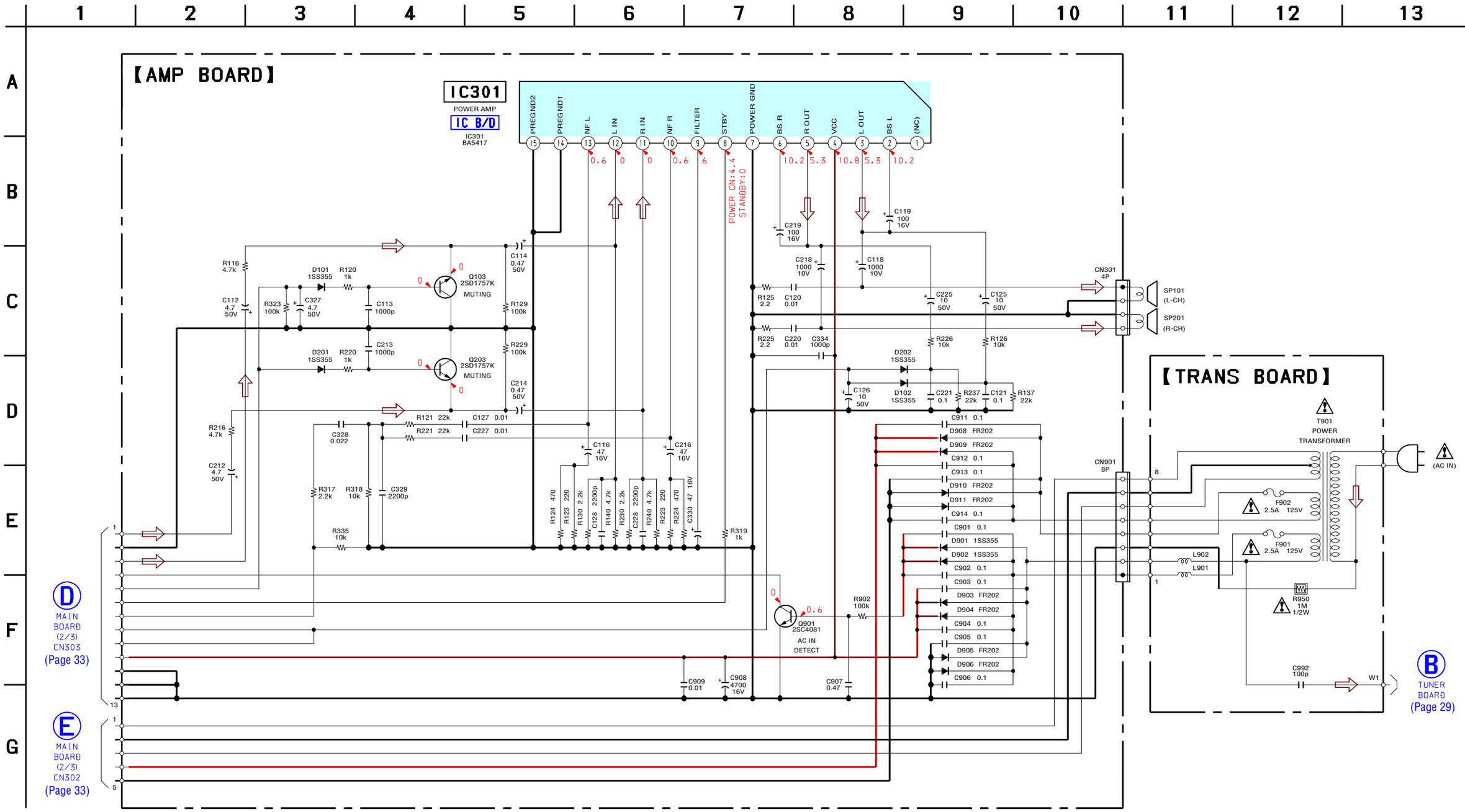
:Uses unleaded solder.

• **Semiconductor Location**

| Ref. No. | Location |
|---|---|
| D101 | C-6 |
| D102 | D-2 |
| D201 | D-6 |
| D202 | E-3 |
| D901 | C-3 |
| D902 | C-3 |
| D903 | C-3 |
| D904 | B-3 |
| D905 | C-2 |
| D906 | B-2 |
| D908 | B-3 |
| D909 | B-3 |
| D910 | B-2 |
| D911 | B-2 |
| IC301 | C-4 |
| Q103 | C-6 |
| Q203 | D-5 |
| Q901 | B-5 |



## 6-21. SCHEMATIC DIAGRAM – AMP/POWER SUPPLY Section – • See page 43 for IC Block Diagram.

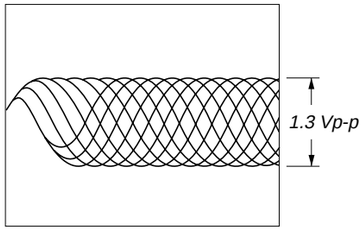



| | |
|---|---|
| The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified. | Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié. |

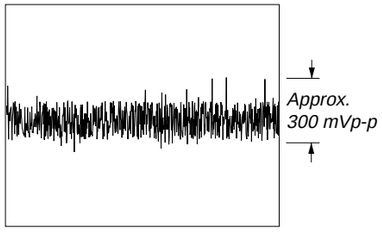
- **Waveforms**

**– CD Board –**

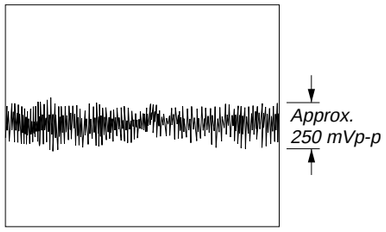
① IC701 ④ (RF) (CD play mode)



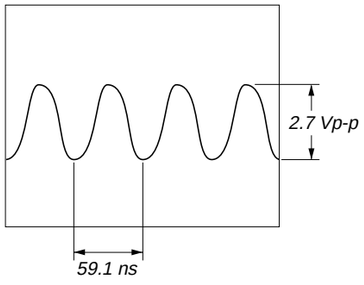

② IC701 ⑬ (FE) (CD play mode)




③ IC701 ⑮ (TE) (CD play mode)

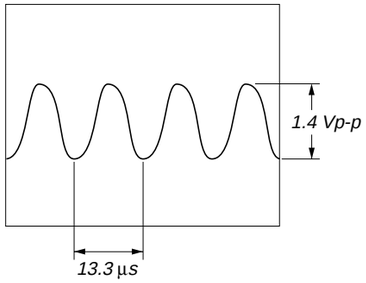



④ IC701 ㊽ (XOUT) (CD play mode)



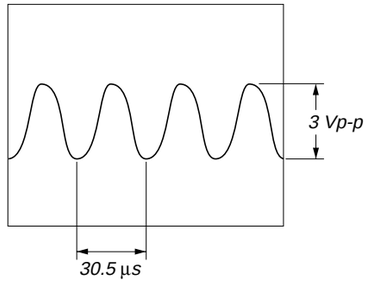

**– TUNER Board –**

⑪ IC2 ⑳ (XOUT)

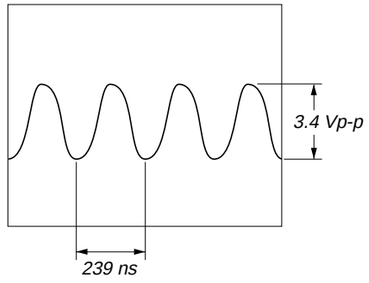



**– MAIN Board –**

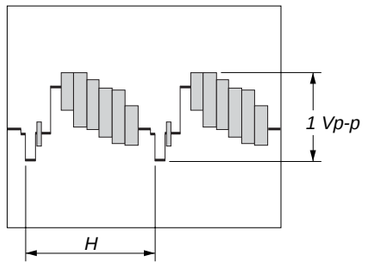
㉑ IC401 ㉛ (XT2)




㉒ IC401 ㉕ (X2) (CD play/TV mode)

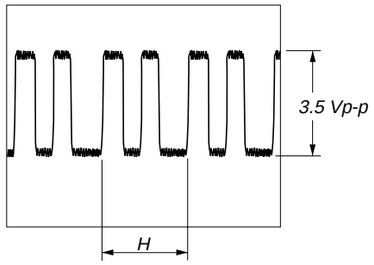



㉓ IC304 ④ (VOUT)
(Color bar signal input mode)

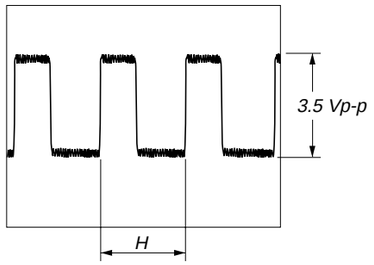



**– TV Board –**

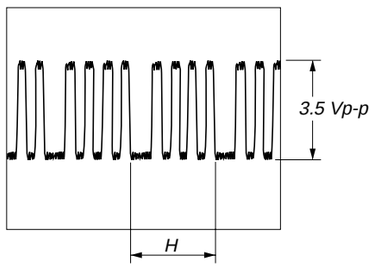
㉛ IC1501 ⑲ (B-OUT)
(Color bar signal input mode)



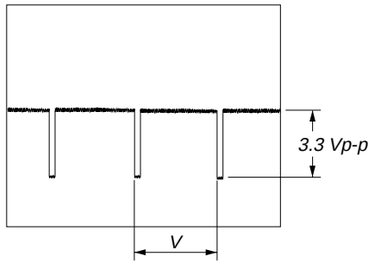

㉜ IC1501 ㉑ (G-OUT)
(Color bar signal input mode)



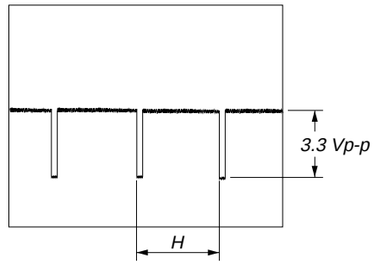

㉝ IC1501 ㉖ (R-OUT)
(Color bar signal input mode)



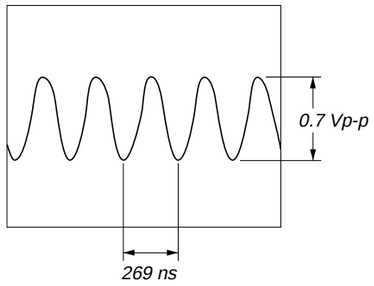

㉞ IC1501 ㉛ (VDOUT)
(Color bar signal input mode)



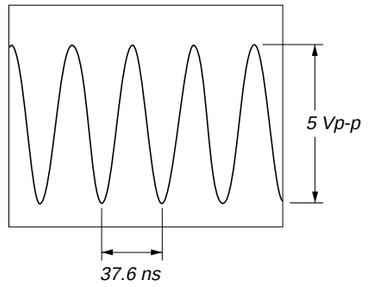

㉟ IC1501 ㉜ (HDOUT)
(Color bar signal input mode)



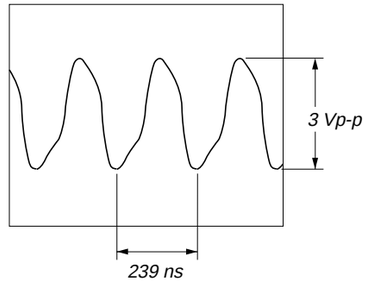

㊱ IC1501 ㊸ (VXO-NTSC)
(Color bar signal input mode)




㊲ IC1601 ㊱ (VCO1)
(Color bar signal input mode)



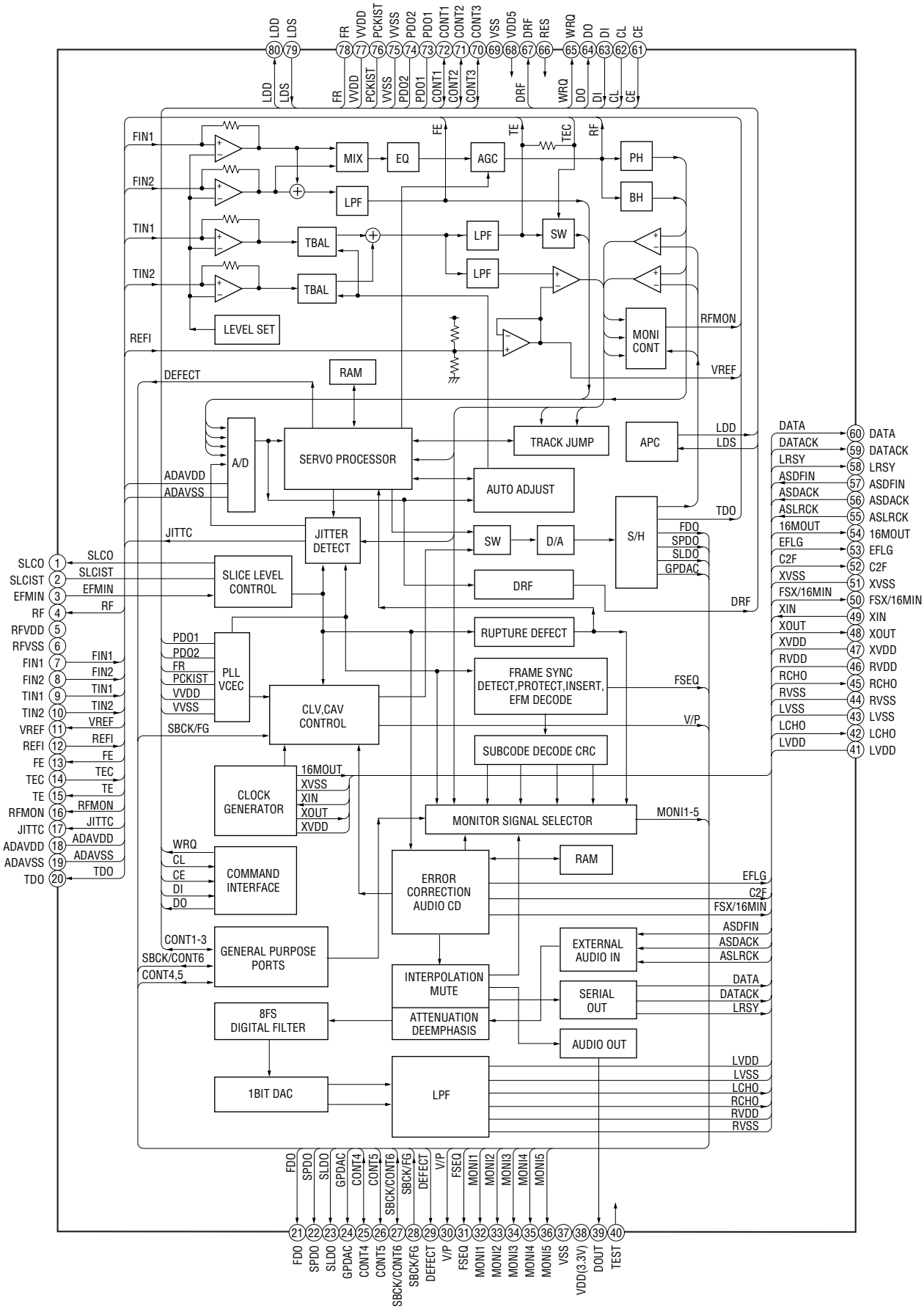

㊳ IC1401 ㉕ (X2)
(Color bar signal input mode)



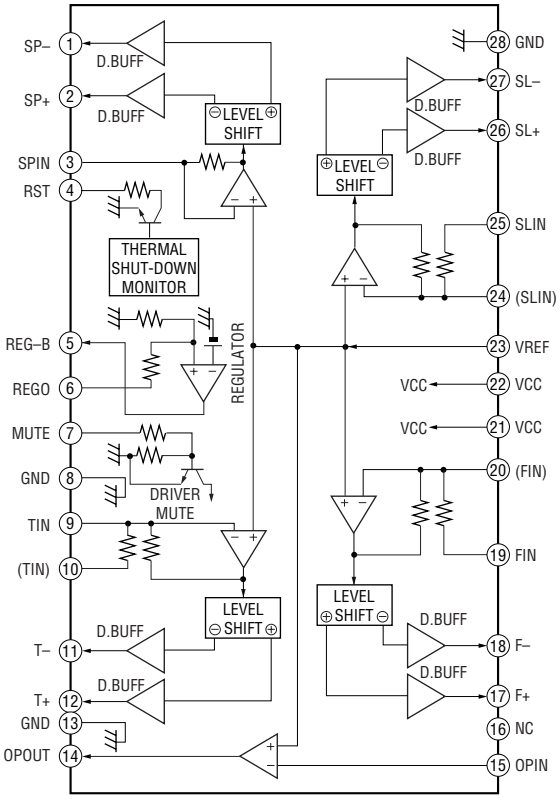
- **IC Block Diagrams**

**– CD Board –**

**IC701 LC78646E-E**

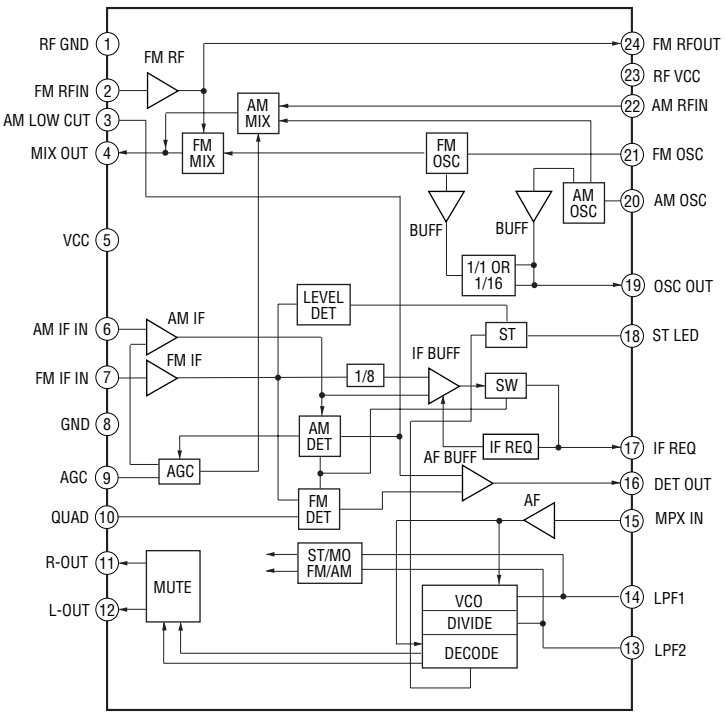


## IC702 BA5826FP-E2

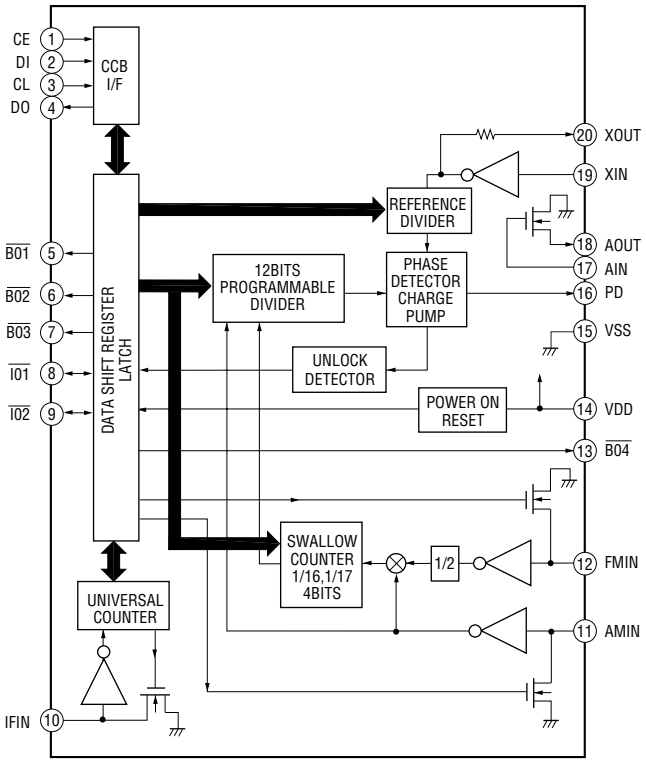



**– TUNER Board –**

## IC1 TA2149BN

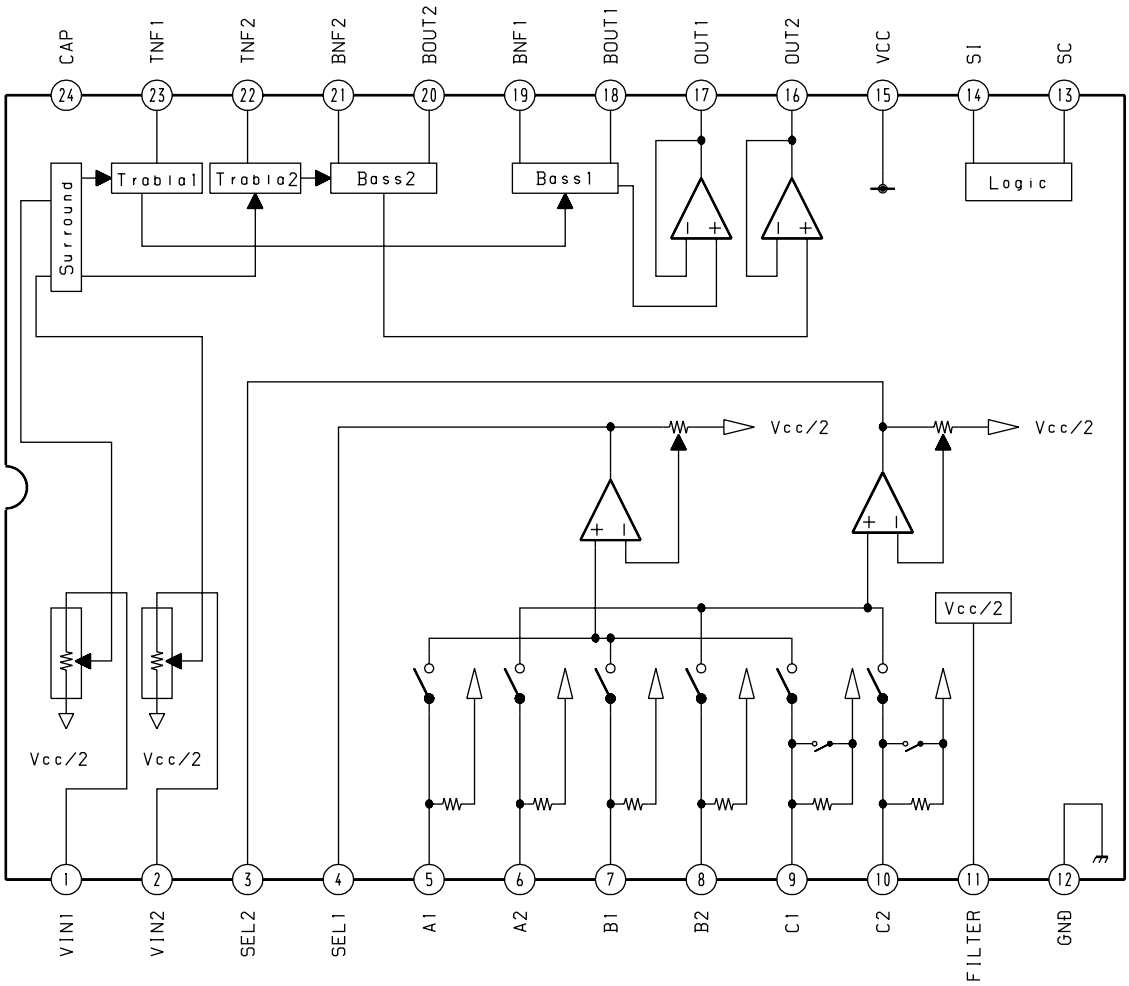


## IC2 LC72137M-TLM-E

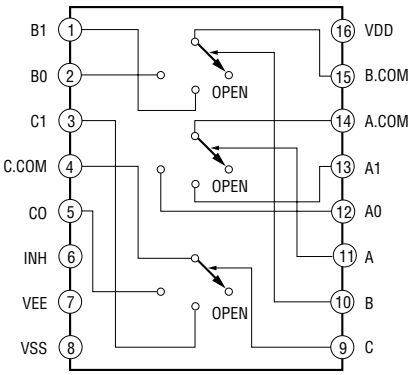



**– MAIN Board –**

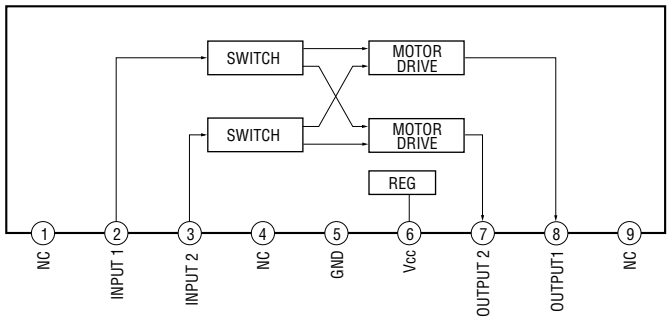
## IC302 BD3870FS-E2



## IC304 BU4053BCF-E2

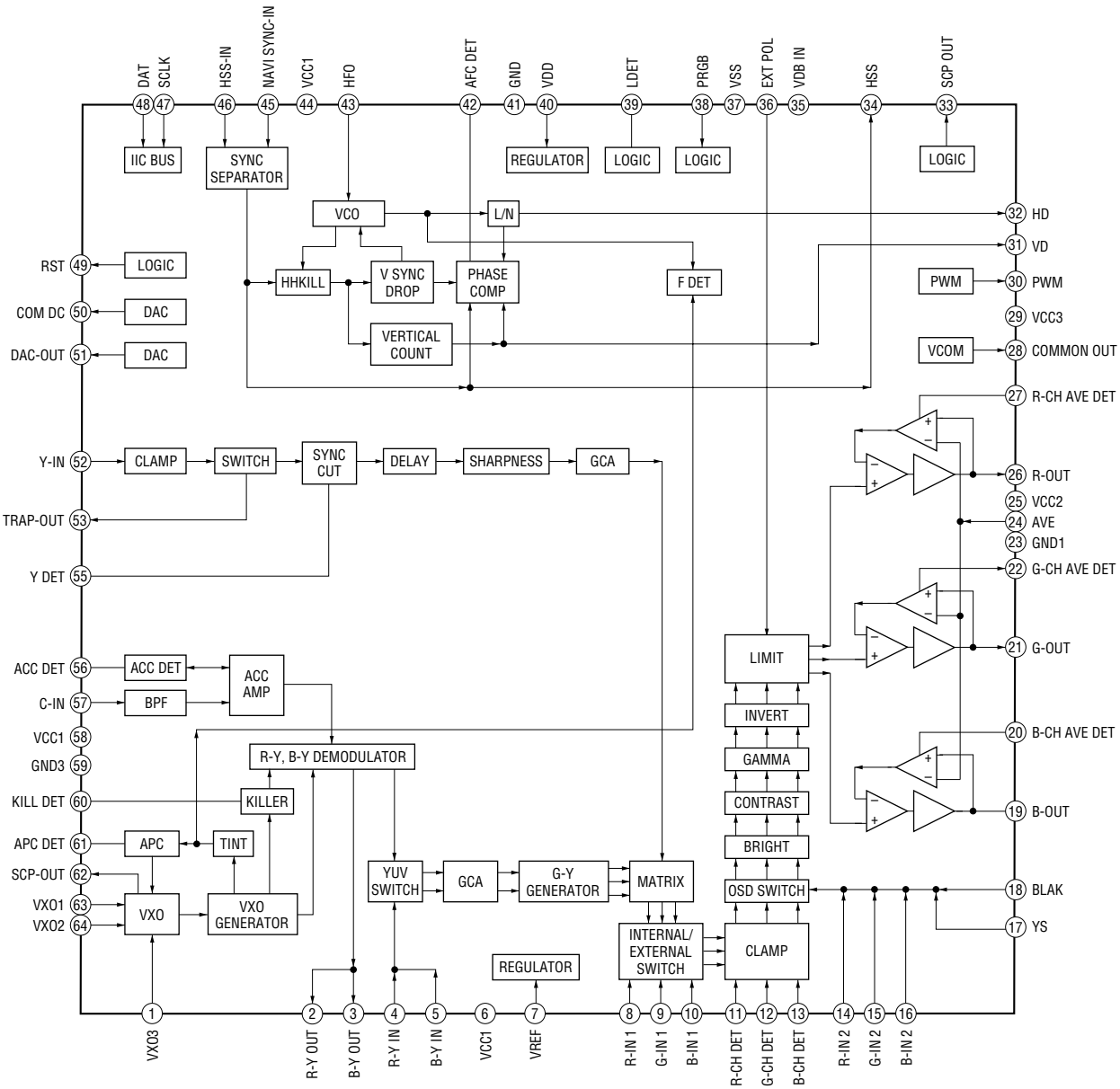



## IC305 BA6208

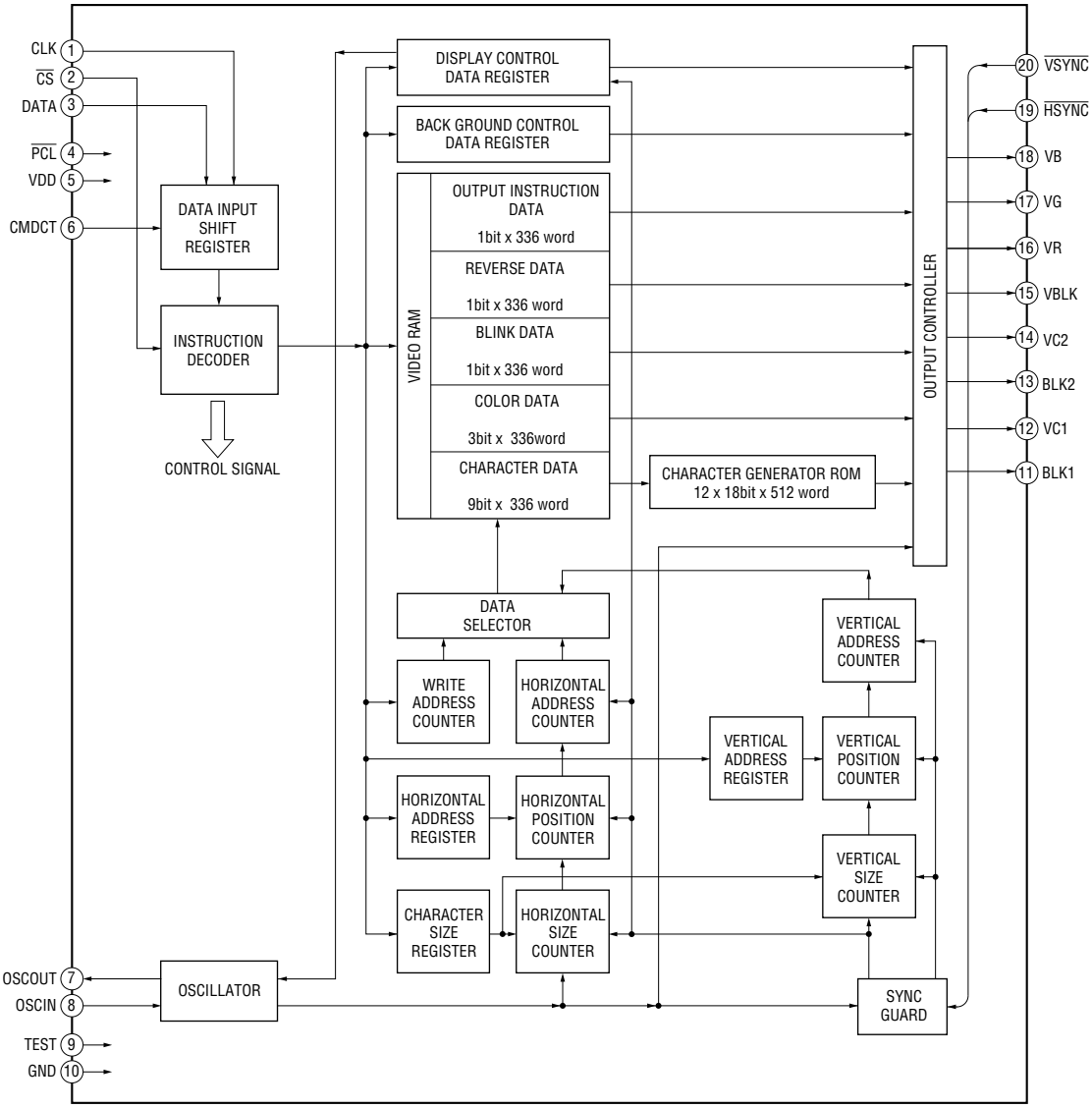



**– TV Board –**

## IC1501 AN2546FH-AV

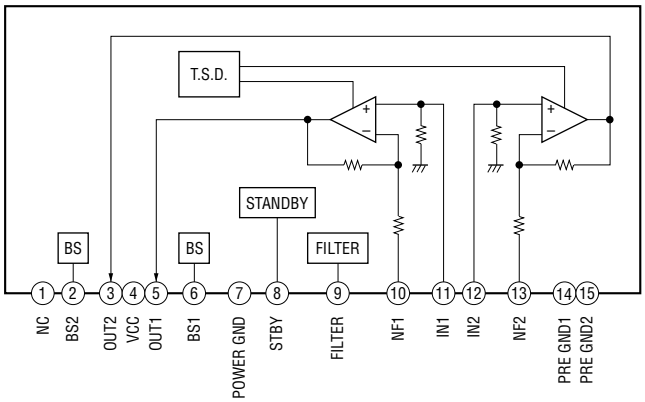


## IC1551 µPD6467GR-546-E1




**– AMP Board –**

## IC301 BA5417



- **IC Pin Function Description**

**MAIN BOARD IC401 μPD789478GC-A31-8BT (SYSTEM CONTROLLER)**

| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 1, 2 | NC | — | Not used |
| 3 to 5 | VLC2 to VLC0 | — | Terminal for doubler circuit capacitor connection to develop liquid crystal display drive voltage |
| 6 to 9 | COM0 to COM3 | O | Common drive signal output to the liquid crystal display |
| 10 to 31 | SEG0 to SEG21 | O | Segment drive signal output to the liquid crystal display |
| 32 | TV POWER ON | O | Power on/off control signal output for the TV section "H": power on |
| 33 | TV DATA SO | O | Serial data output to the TV system controller |
| 34 | TV DATA SCK | O | Serial data transfer clock signal output to the TV system controller |
| 35 | TV DATA SI | I | Serial data input from the TV system controller |
| 36 | $\overline{\text{RESET}}$ | O | System reset signal output to the TV system controller "L": reset |
| 37 | NC | — | Not used |
| 38 | AVDD | — | Power supply terminal (+3.3V) (for A/D converter) |
| 39 | FSEQ | I | Synchronizing signal detection signal input from the digital signal processor |
| 40, 41 | ENCODE+, ENCODE– | I | Jog dial pulse input from the rotary encoder |
| 42 | $\overline{\text{CD CLOSE DET}}$ | I | CD tray close detect switch input terminal "L": CD tray is closed |
| 43 to 46 | KEY3 to KEY0 | I | Front and side panel key input terminal (A/D input) |
| 47 | AVSS | — | Ground terminal (for A/D converter) |
| 48 | RC | I | SIRCS signal input from the remote control receiver |
| 49 | AC IN | I | Power failure detection signal input terminal |
| 50 | $\overline{\text{WRQ}}$ | I | Interruption detection signal input from the digital signal processor "L" active |
| 51 | CD CLOSE | O | CD tray open/close motor drive signal (close direction) output terminal "H" active |
| 52 | BUZZER | I | Beep sound drive signal output terminal |
| 53 | CD DATA IN | I | Serial data input from the digital signal processor |
| 54 | CD DATA | O | Serial data output to the digital signal processor |
| 55 | CD CLK | O | Serial data transfer clock signal output to the digital signal processor |
| 56 | CD CE | O | Chip enable signal output to the digital signal processor |
| 57 | DRF | I | Focus on/off detection signal input from the digital signal processor |
| 58 | XRST | O | Reset signal output to the digital signal processor "L": reset |
| 59 | $\overline{\text{POWER ON}}$ | O | Power amplifier on/off control signal output terminal "L": power amplifier on, "H": standby |
| 60 | CD OPEN | O | CD tray open/close motor drive signal (open direction) output terminal "H" active |
| 61 | $\overline{\text{CD OPEN DET}}$ | I | CD tray open detect switch input terminal "L": CD tray is closed |
| 62 | MUTE | O | Muting on/off control signal output terminal Not used |
| 63 | COUNT | I | PLL serial count data input from the FM/AM PLL |
| 64 | RADIO CE | O | PLL chip enable signal output to the FM/AM PLL |
| 65 | RADIO DATA | O | PLL serial data output to the FM/AM PLL |
| 66 | RADIO CLK | O | PLL serial data transfer clock signal output to the FM/AM PLL |
| 67 | VOL CLK | O | Serial data transfer clock signal output to the electrical volume |
| 68 | VOL DAT | O | Serial data output to the electrical volume |
| 69 | IC0 | — | Not used |
| 70 | XT1 | I | Sub system clock input terminal (32.768 kHz) |
| 71 | XT2 | O | Sub system clock output terminal (32.768 kHz) |
| 72 | VDD | — | Power supply terminal (+3.3V) |
| 73 | VSS | — | Ground terminal |
| 74 | X1 | I | Main system clock input terminal (4.19 MHz) |
| 75 | X2 | O | Main system clock output terminal (4.19 MHz) |

| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 76 | $\overline{\text{RESET}}$ | I | System reset signal input from the reset signal generator "L": reset<br>For several hundreds msec. after the power supply rises, "L" is input, then it changes to "H" |
| 77 | $\overline{\text{A MUTE}}$ | O | Audio muting on/off control signal output terminal "L": muting on |
| 78 | $\overline{\text{RADIO ON}}$ | O | Power on/off control signal output for the radio section "L": power on |
| 79 | $\overline{\text{CD ON}}$ | O | Power on/off control signal output for the CD section "L": power on |
| 80 | $\overline{\text{TIMER LED}}$ | O | LED drive signal output of the TIMER "L": LED on |

**TV BOARD IC1401 μPD789477GC-A45-8BT (TV SYSTEM CONTROLLER)**

| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 1 to 25 | NC | — | Not used |
| 26 | TFT TEST MODE | I | Monitor test mode setting terminal "H": test mode on |
| 27 to 29 | NC | — | Not used |
| 30 | T-AGC | O | TV AGC on/off control signal output to the TV tuner unit |
| 31 | T-MUTE | O | TV muting on/off control signal output to the TV tuner unit "H": muting on |
| 32 | T-SDATA | O | Serial data output to the TV tuner unit |
| 33 | T-SCL | O | Serial data transfer clock signal output to the TV tuner unit |
| 34 | T-A MUTE | O | TV audio muting on/off control signal output terminal "H": muting on |
| 35, 36 | NC | — | Not used |
| 37 | TFT OPEN | I | Monitor open/close detection signal input terminal "L": open, "H": close |
| 38 | AVDD | — | Power supply terminal (+3.3V) (for A/D converter) |
| 39 to 45 | NC | — | Not used |
| 46 | T-AFT | I | TV AFT detection signal input from the TV tuner unit (A/D input) |
| 47 | AVSS | — | Ground terminal (for A/D converter) |
| 48 | NC | — | Not used |
| 49 | EEPROM-SDA | I/O | Two-way data bus with the EEPROM |
| 50 | EEPROM-SCL | O | Serial data transfer clock signal output to the EEPROM |
| 51 | NC | — | Not used |
| 52 | VSYNC | I | Vertical sync signal input from the RGB decoder |
| 53 | OSD-CS | O | Chip select signal output to the OSD driver |
| 54 | OSD-DATA | O | Serial data output to the OSD driver |
| 55 | OSD-CLK | O | Serial data transfer clock signal output to the OSD driver |
| 56 | TV DATA-SI | I | Serial data input from the system controller |
| 57 | TV DATA-SO | O | Serial data output to the system controller |
| 58 | TV DATA-CLK | I | Serial data transfer clock signal input from the system controller |
| 59 | NC | — | Not used |
| 60 | TFT-ON | O | Power on/off control signal output for back light unit "H": power on |
| 61 | ZOOM | O | Screen size selection signal output to the LCD controller "H": zoom screen |
| 62 | JUST | O | Screen size selection signal output to the LCD controller "H": wide screen |
| 63, 64 | SIDE1, SIDE2 | O | Screen size selection signal output to the LCD controller |
| 65 | HSYNCLOCK | I | Horizontal sync detection signal input from the RGB decoder |
| 66 | SDA | O | Serial data output to the RGB decoder |
| 67 | SCK | O | Serial data transfer clock signal output to the RGB decoder |
| 68 | NC | — | Not used |
| 69 | VPP/VSS | I | Connected to the ground |
| 70 | XT1 | I | System clock input terminal Not used |
| 71 | XT2 | O | System clock output terminal Not used |
| 72 | VDD | — | Power supply terminal (+3.3V) |
| 73 | VSS | — | Ground terminal |
| 74 | X1 | I | System clock input terminal (4.19 MHz) |
| 75 | X2 | O | System clock output terminal (4.19 MHz) |
| 76 | $\overline{\text{RESET}}$ | I | System reset signal input from the system controller "L": reset |
| 77 | TV/VIDEO | O | TV/video selection signal output terminal "L": TV, "H": video |
| 78 | T-MODE | O | Audio mode selection signal output to the TV tuner unit |
| 79 | T-FMONO | O | Audio mode selection signal output to the TV tuner unit |
| 80 | MONITOR ON | O | Power on/off control signal output for LCD module "H": power on |

**TV BOARD IC1551 μPD6467GR-546-E1 (OSD DRIVER)**

| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 1 | SCLK | I | Serial data transfer clock signal input from the TV system controller |
| 2 | CSN | I | Chip select signal input from the TV system controller |
| 3 | DATA | I | Serial data input from the TV system controller |
| 4 | PCL | I | Clear signal input after the power supply rises |
| 5 | VDD | — | Power supply terminal (+3.3V) |
| 6 | CMDCT | I | Command LSB/MSB first input selection signal input terminal<br>"L": LSB first, "H": MSB first Fixed at "H" in this set |
| 7 | OSC OUT | O | Output terminal from the clock generator circuit |
| 8 | OSC IN | I | Input terminal from the clock generator circuit |
| 9 | TEST | I | Test mode setting terminal "H": test mode, normally fixed at "L" |
| 10 | GND | — | Ground terminal |
| 11 | BLK1 | O | Blanking signal output terminal Not used |
| 12 | VC1 | O | Character signal output terminal Not used |
| 13 | BLK2 | O | Blanking signal output terminal Not used |
| 14 | VC2 | O | Character signal output terminal Not used |
| 15 | BLK | O | Blanking signal output to the RGB decoder |
| 16 to 18 | VR, VG, VB | O | Character signal output to the RGB decoder |
| 19 | VSYNCN | I | Vertical sync signal input from the RGB decoder |
| 20 | HSYNCN | I | Horizontal sync signal input from the RGB decoder |

**TV BOARD IC1601 MN5814 (LCD CONTROLLER)**

| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 1 | SYNCIN | I | Composite sync signal input terminal Not used |
| 2 | HSYNCIN | I | Horizontal sync signal input from the RGB decoder |
| 3, 4 | SIDE2, SIDE1 | I | Screen size selection signal input from the TV system controller |
| 5 | VDBIN | I | Vertical sync signal input from the RGB decoder |
| 6 | HOUT | O | Horizontal sync signal output terminal Not used |
| 7 | VOUT | O | Vertical sync signal output terminal Not used |
| 8 | BLACK | O | Black signal output to the RGB decoder |
| 9 to 11 | VPOS3 to VPOS1 | I | Vertical display position selection signal input terminal |
| 12 | ZOOM | I | Screen size selection signal input from the TV system controller "H": zoom screen |
| 13 | UD | I | Above and below scan direction selection signal input terminal Not used |
| 14 | POL | O | Polarity inversion signal of reflection and opposite output to the RGB decoder |
| 15 | INTEXT | I | Composite/separate sync selection signal input terminal |
| 16 | CPV | O | Gate driver clock signal output to the liquid crystal display module |
| 17 to 19 | OEV3 to OEV1 | O | Gate driver output enable pulse signal output to the liquid crystal display module |
| 20 | STV1 | O | Gate driver start pulse signal output to the liquid crystal display module |
| 21 | OEH | O | Source driver output enable pulse signal output to the liquid crystal display module |
| 22 | ZOOMC | O | Screen size selection signal output terminal Not used |
| 23, 24 | STH1, STH2 | O | Source driver start pulse signal output to the liquid crystal display module |
| 25 | CPH3 | O | Source driver clock signal output to the liquid crystal display module |
| 26 | STV2 | O | Gate driver start pulse signal output to the liquid crystal display module |
| 27 | CPH2 | O | Source driver clock signal output to the liquid crystal display module |
| 28 | R/L | I | Left and right scan direction selection signal input terminal Not used |
| 29 | CPH1 | O | Source driver clock signal output to the liquid crystal display module |
| 30 | HDOT2 | I | Mode selection signal input for number of display pixel |
| 31 | JUST | I | Screen size selection signal input from the TV system controller "H": wide screen |
| 32 | POSSET | I | Horizontal display position and vertical display position offset selection signal input terminal |
| 33 | PD | O | Phase comparation output terminal |
| 34 | QVDZMSEL | I | Screen size selection signal input terminal |
| 35 | VDD (A) | — | Power supply terminal (+3.3V) |
| 36 | VCO1 | I | VCO signal and system clock signal input terminal |
| 37 | VCO0 | O | System clock signal output terminal |
| 38 | VSS (A) | — | Ground terminal |
| 39 | RESET | I | System reset signal input terminal |
| 40 | HDOT1 | I | Mode selection signal input for number of display pixel |
| 41 | UONS | I | Screen size selection signal input terminal |
| 42 to 45 | HPOS4 to HPOS1 | I | Horizontal display position selection signal input terminal |
| 46 | N/P | I | NTSC/PAL selection signal input terminal "L": NTSC, "H": PAL Fixed at "L" in this set |
| 47 | VDD (D) | — | Power supply terminal (+3.3V) |
| 48 | VSS (D) | — | Ground terminal |

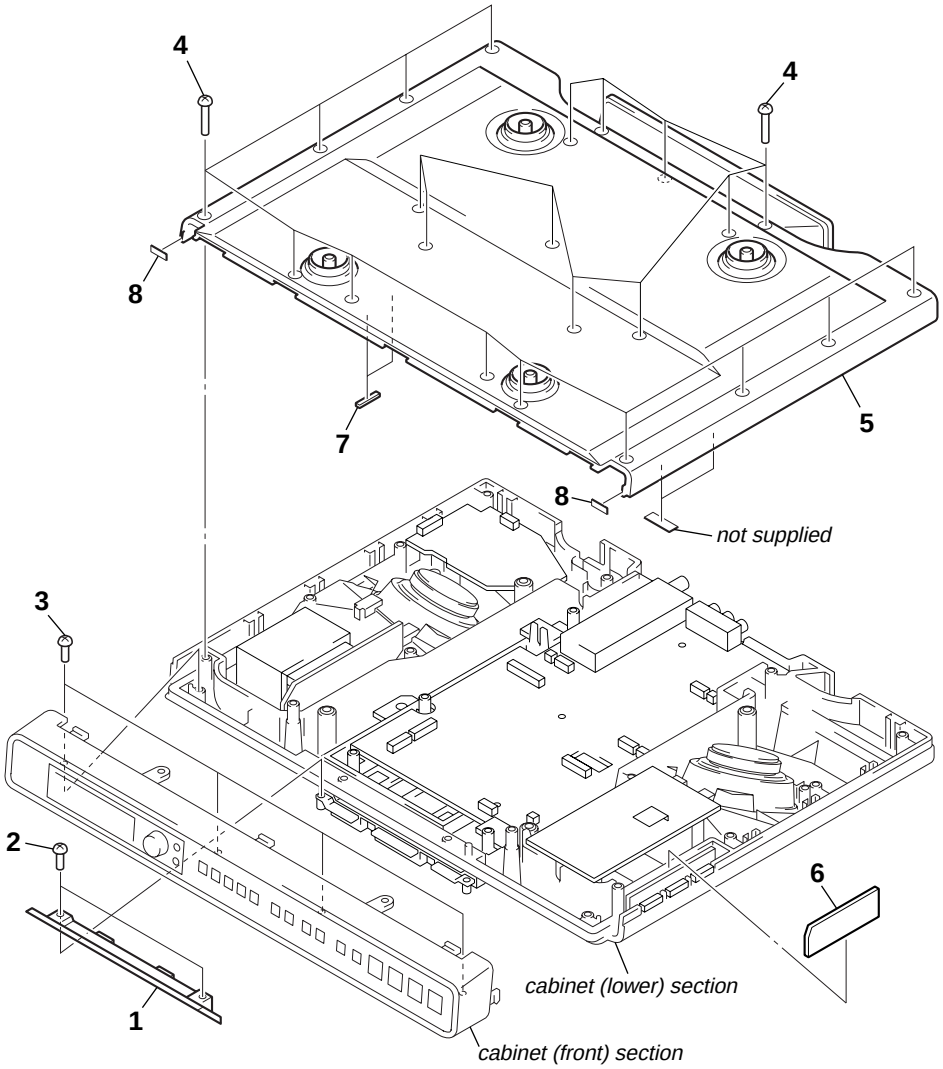
# SECTION 7
# EXPLODED VIEWS

NOTE:
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Accessories are given in the last of the electrical parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiquens pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

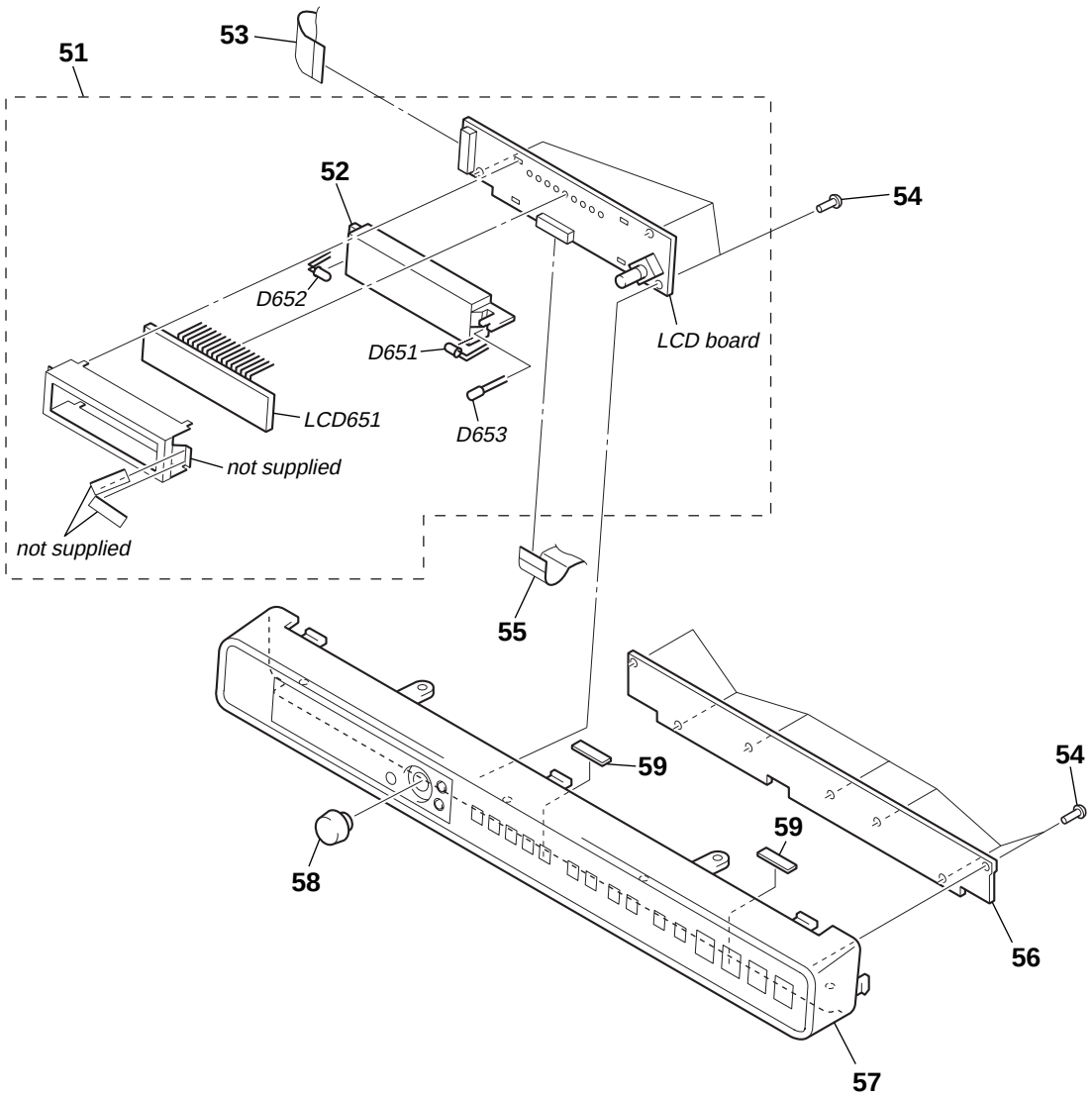
## 7-1. CABINET (UPPER) SECTION




| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 1 | 3-264-176-01 | LID, CD | |
| 2 | 3-254-070-01 | SCREW | |
| 3 | 3-253-143-01 | SCREW (B2.6), (+) P TAPPING | |
| 4 | 3-254-145-01 | SCREW (B3), (+) BV TAPPING | |
| 5 | 3-264-170-02 | CABINET (UPPER) (SILVER) | |

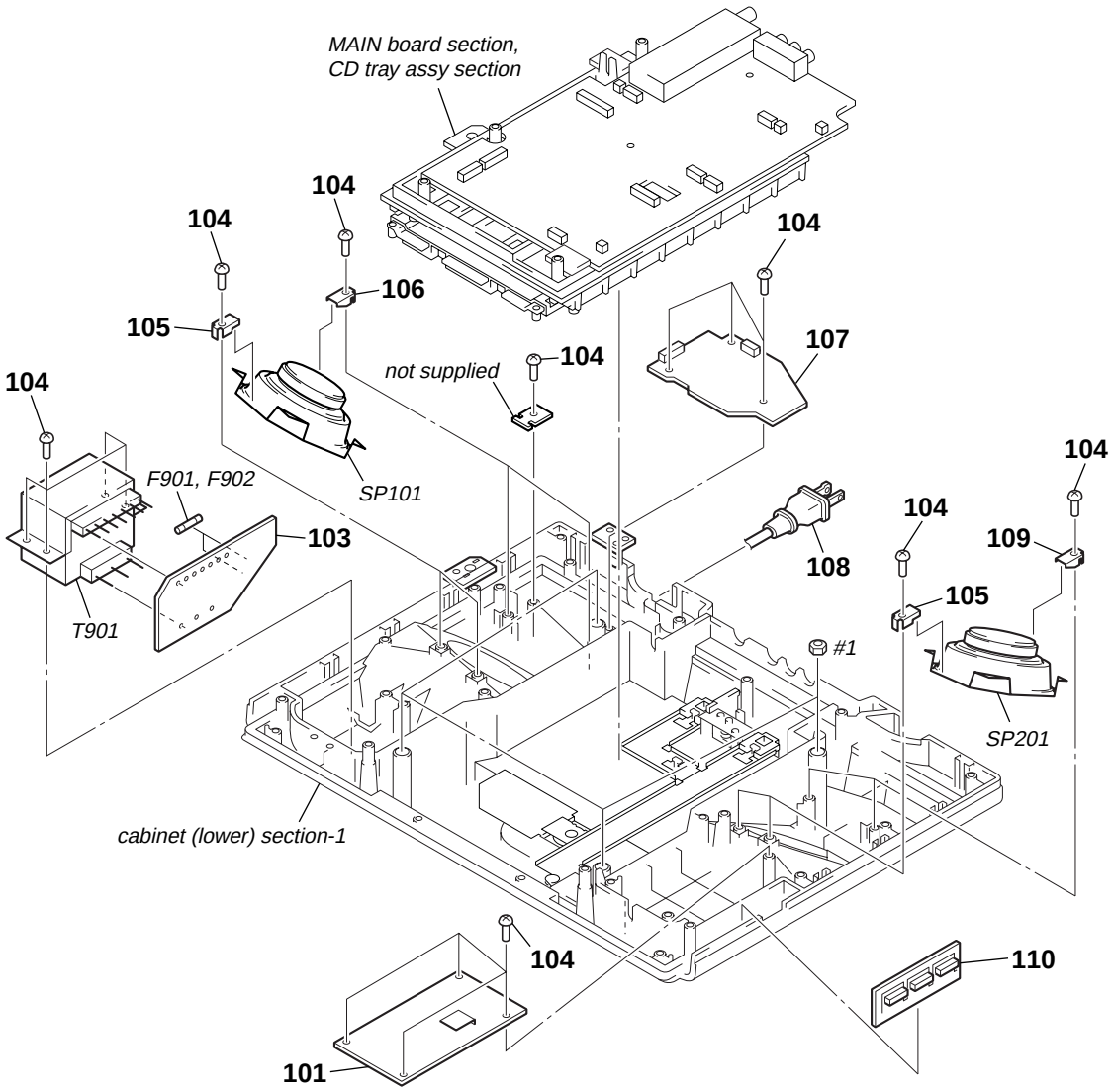
| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 5 | 3-264-170-22 | CABINET (UPPER) (WHITE) | |
| * 6 | 1-861-828-11 | SIDE-KEY BOARD | |
| 7 | 3-265-162-01 | CUSHION (C) | |
| 8 | 3-573-007-01 | SHEET (1) | |

## 7-2. CABINET (FRONT) SECTION




| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| * 51 | A-4547-295-A | LCD BOARD, COMPLETE | |
| 52 | 3-264-174-01 | HOLDER (LCD) | |
| 53 | 1-829-096-11 | CABLE, FLEXIBLE FLAT (17 CORE) | |
| 54 | 3-254-070-01 | SCREW | |
| 55 | 1-829-095-11 | CABLE, FLEXIBLE FLAT (16 CORE) | |
| * 56 | A-4547-291-A | FRONT-KEY BOARD, COMPLETE | |
| 57 | X-2021-183-1 | CABINET (FRONT) SUB ASSY (SILVER) | |
| 57 | X-2021-186-1 | CABINET (FRONT) SUB ASSY (WHITE) | |
| 58 | 3-264-178-01 | KNOB (TIMER) | |
| 59 | 3-242-622-01 | CUSHION (A) | |
| D651 | 6-500-218-01 | LED TLFGE53T (LCD BACK LIGHT) | |
| D652 | 6-500-218-01 | LED TLFGE53T (LCD BACK LIGHT) | |
| D653 | 8-719-053-59 | LED SLR-342DU (TIMER) | |
| LCD651 | 1-805-559-11 | DISPLAY PANEL, LIQUID CRYSTAL | |

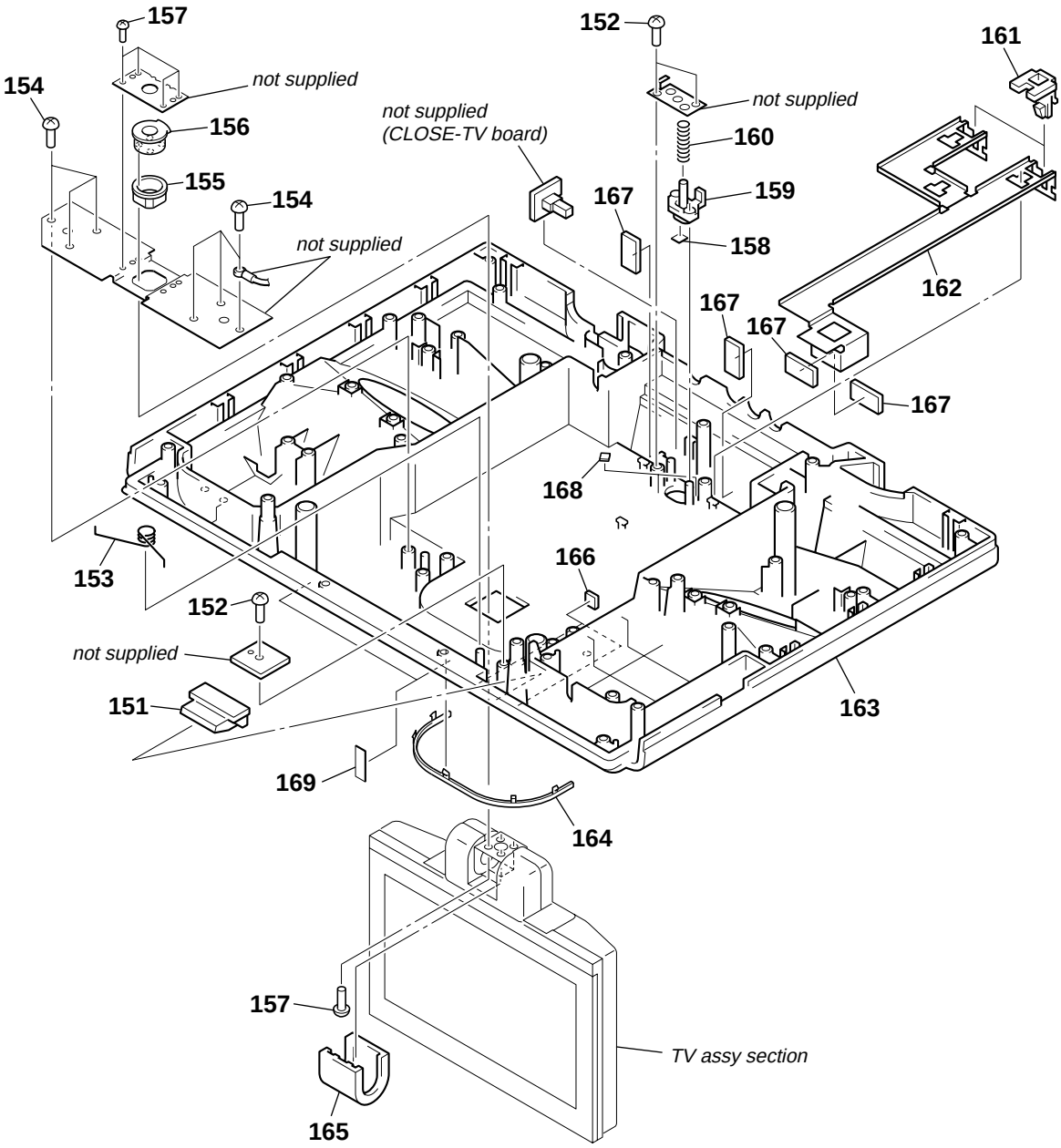
## 7-3. CABINET (LOWER) SECTION-1




| The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified. | Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié. |
|---|---|

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| * 101 | A-3663-818-A | TUNER BOARD, COMPLETE | |
| * 103 | 1-861-829-11 | TRANS BOARD | |
| 104 | 3-254-143-01 | SCREW (B3), (+) BV TAPPING | |
| * 105 | 3-264-193-01 | BRACKET (SP) F | |
| * 106 | 3-264-194-01 | BRACKET (SP) LB | |
| * 107 | A-4547-274-A | AMP BOARD, COMPLETE | |
| ⚠108 | 1-828-104-11 | CORD, POWER | |
| * 109 | 3-264-196-01 | BRACKET (SP) RB | |
| 110 | 3-264-177-01 | BUTTON (CLOCK) | |
| ⚠F901 | 1-533-450-12 | FUSE, GLASS TUBE (DIA. 5) (2.5A/125V) | |
| ⚠F902 | 1-533-450-12 | FUSE, GLASS TUBE (DIA. 5) (2.5A/125V) | |
| SP101 | 1-825-799-11 | SPEAKER (7.7cm) | |
| SP201 | 1-825-799-11 | SPEAKER (7.7cm) | |
| ⚠T901 | 1-443-226-11 | TRANSFORMER, POWER | |
| #1 | 7-684-025-04 | N 5, TYPE 2 | |

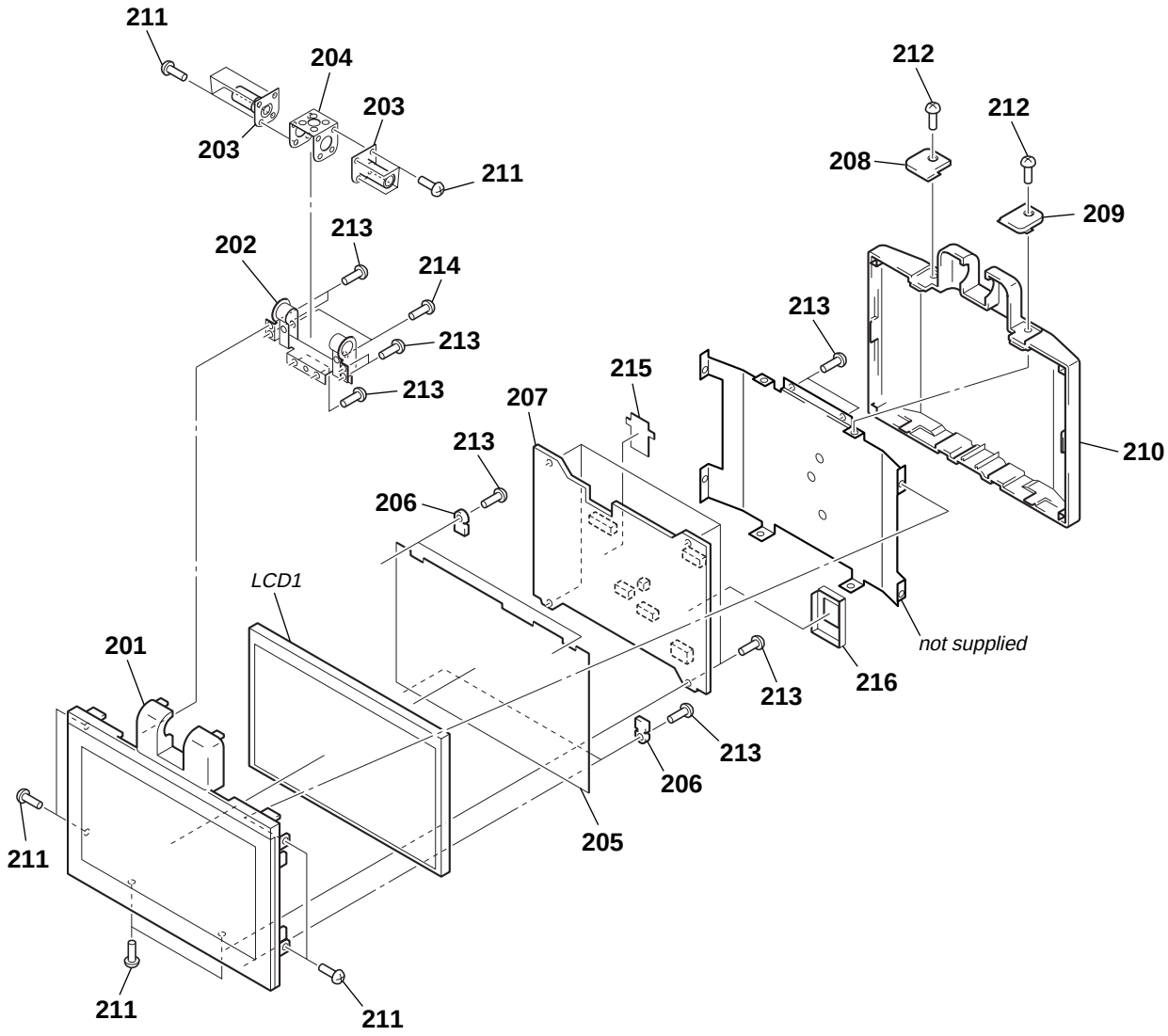
## 7-4. CABINET (LOWER) SECTION-2




| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 151 | 3-264-186-01 | BUTTON (RELEASE) | |
| 152 | 3-253-143-01 | SCREW (B2.6), (+) P TAPPING | |
| 153 | 3-264-203-01 | SPRING (RELEASE) | |
| 154 | 3-254-143-01 | SCREW (B3), (+) BV TAPPING | |
| 155 | 3-264-206-01 | SHAFT (B) | |
| 156 | 3-264-205-01 | SHAFT (A) | |
| 157 | 3-245-709-31 | SCREW | |
| 158 | 3-264-214-01 | CUSHION (LIFT) | |
| 159 | 3-264-188-01 | LIFT | |
| 160 | 3-264-213-01 | SPRING (LIFT) | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 161 | 3-264-187-01 | HOOK (RELEASE) | |
| 162 | 3-264-204-01 | ARM (RELEASE) | |
| 163 | X-2021-184-1 | CABINET (LOWER) SUB ASSY (SILVER) | |
| 163 | X-2021-187-1 | CABINET (LOWER) SUB ASSY (WHITE) | |
| 164 | 3-265-160-01 | SLIDER (CABINET LOWER) | |
| 165 | 3-264-185-01 | CASE (SHAFT) | |
| 166 | 2-055-133-01 | CUSHION (RELEASE) | |
| 167 | 2-055-135-01 | CUSHION (ARM) | |
| 168 | 3-573-007-01 | SHEET (1) | |
| 169 | 2-055-213-01 | CUSHION (J) | |

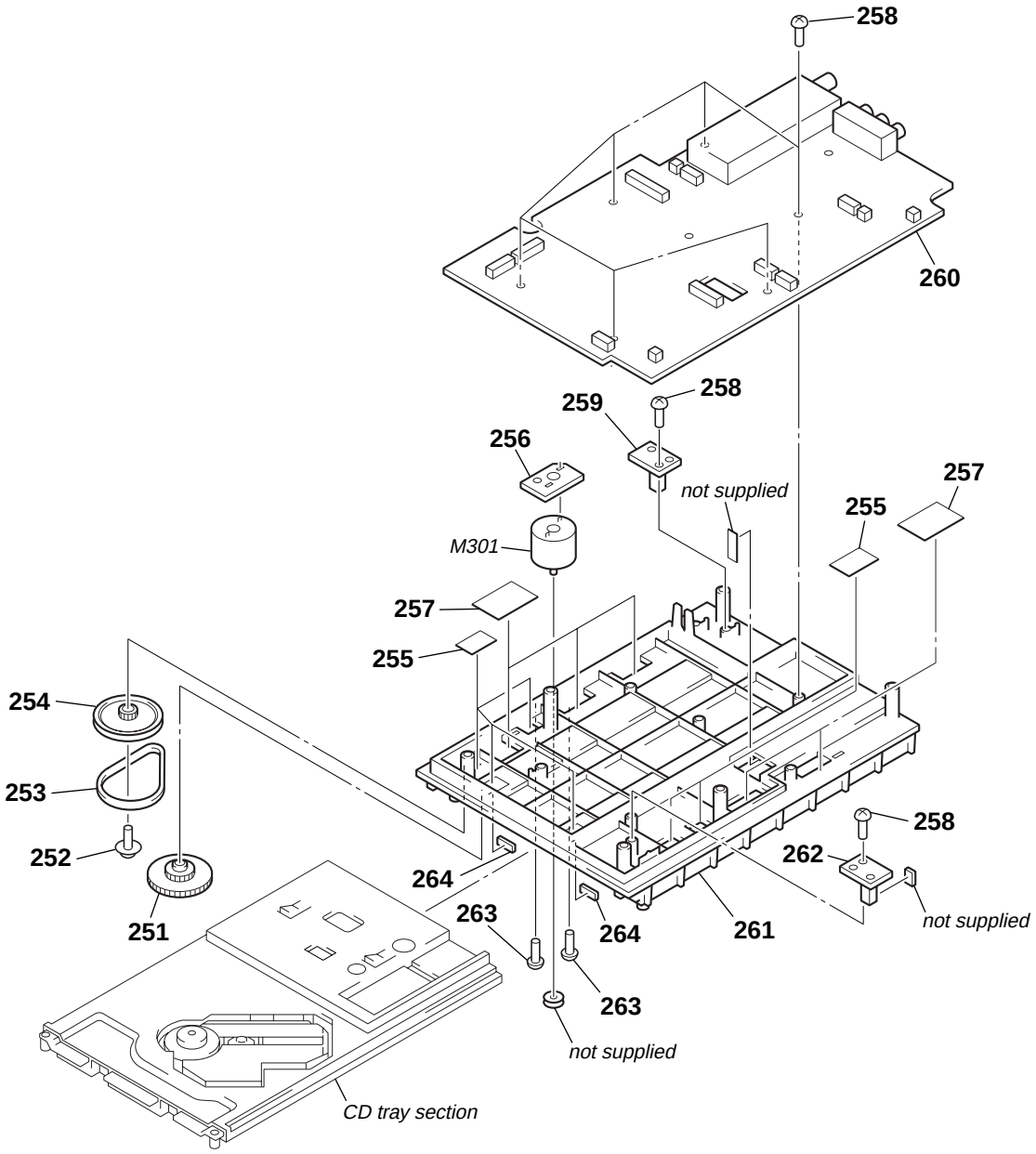
## 7-5. TV ASSY SECTION




| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 201 | X-2021-185-1 | CASE (FRONT), DSP SUB ASSY (SILVER) | |
| 201 | X-2021-188-1 | CASE (FRONT), DSP SUB ASSY (WHITE) | |
| * 202 | 3-264-211-01 | PLATE (DSP) | |
| 203 | 3-264-207-01 | SHAFT (C) | |
| * 204 | 3-264-210-01 | PLATE (MIDWAY) | |
| 205 | 3-264-216-01 | SHEET (DSP), INSULATING | |
| * 206 | 3-264-202-01 | BRACKET (DSP) | |
| * 207 | A-4547-278-A | TV BOARD, COMPLETE | |
| 208 | 3-265-161-01 | SLIDER (DSP) (L) | |

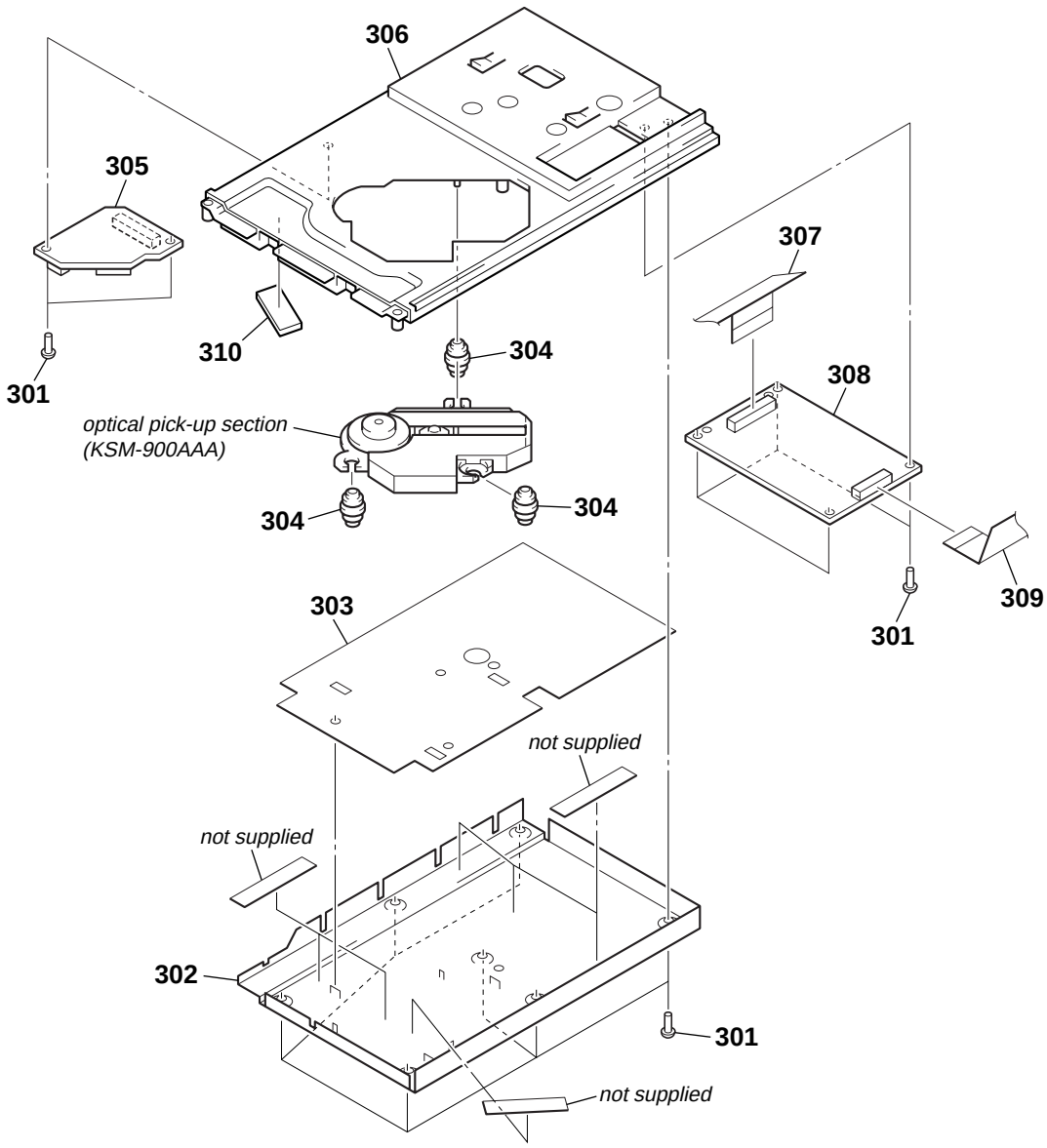
| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 209 | 3-265-572-01 | SLIDER (DSP) (R) | |
| 210 | 3-264-183-01 | CASE (REAR), DSP | |
| 211 | 3-245-709-31 | SCREW | |
| 212 | 3-245-709-51 | SCREW | |
| 213 | 3-254-070-01 | SCREW | |
| 214 | 3-254-150-01 | SCREW (M3), (+) P | |
| 215 | 3-264-219-01 | SHEET (C) | |
| 216 | 3-264-223-01 | SHIELD (INVERTOR) | |
| LCD1 | 1-478-616-11 | LCD UNIT | |

## 7-6. MAIN BOARD SECTION



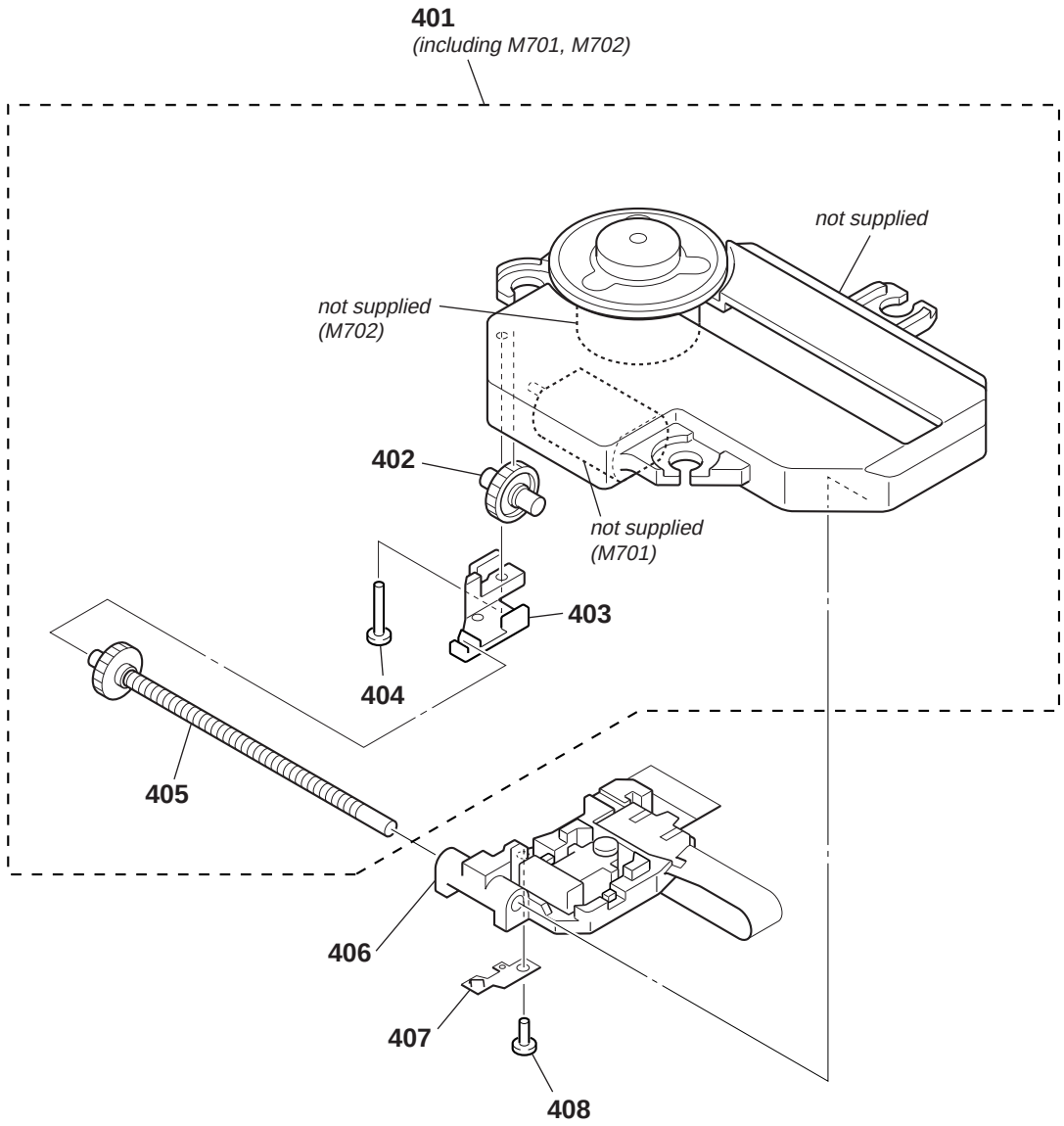

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 251 | 3-264-181-01 | GEAR | |
| 252 | 3-252-828-01 | SCREW (B2.6), (+) PWH TAPPING | |
| 253 | 3-933-020-01 | BELT | |
| 254 | 3-264-180-01 | PULLEY | |
| 255 | 3-264-217-01 | SHEET (A) | |
| * 256 | 1-861-835-11 | MOTOR BOARD | |
| 257 | 3-264-218-01 | SHEET (B) | |
| 258 | 3-253-143-01 | SCREW (B2.6), (+) P TAPPING | |
| * 259 | 1-861-834-11 | CD-CLOSE BOARD | |
| * 260 | A-4547-287-A | MAIN BOARD, COMPLETE | |
| 261 | 3-264-173-01 | CHASSIS | |
| * 262 | 1-861-833-11 | CD-OPEN BOARD | |
| 263 | 3-245-709-31 | SCREW | |
| 264 | 3-265-163-01 | CUSHION (D) | |
| M301 | 1-763-183-12 | MOTOR, DC (CD TRAY OPEN/CLOSE) | |

## 7-7. CD TRAY ASSY SECTION




| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 301 | 3-253-143-01 | SCREW (B2.6), (+) P TAPPING | |
| 302 | 3-264-190-01 | TRAY (LOWER), CD | |
| 303 | 3-264-215-01 | SHEET (CD TRAY), INSULATING | |
| 304 | 4-975-762-11 | INSULATOR | |
| * 305 | 1-861-830-11 | RELAY BOARD | |
| 306 | 3-264-175-01 | TRAY (UPPER), CD | |
| 307 | 1-829-094-11 | CABLE, FLEXIBLE FLAT (20 CORE) | |
| * 308 | A-4542-926-A | CD BOARD, COMPLETE | |
| 309 | 1-829-093-11 | CABLE, FLEXIBLE FLAT (14 CORE) | |
| 310 | 3-223-740-01 | CUSHION (C) | |

## 7-8. OPTICAL PICK-UP SECTION (KSM-900AAA)




| The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified. | Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié. |
|---|---|

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| * 401 | A-4902-666-A | MD ASSY (900AAA-RP) (Including M701 (SLED), M702 (SPINDLE)) | |
| 402 | 2-165-627-02 | GEAR B (780C) | |
| 403 | 2-165-626-01 | HOLDER (780C) | |
| 404 | 2-646-352-01 | SCREW (2X8) | |
| 405 | X-2162-234-1 | SCREW ASSY (780E), SLED | |
| ⚠406 | 8-820-137-02 | OPTICAL PICK-UP KSS-900A/C2RP | |
| 407 | 2-165-630-02 | SPRING (780C), RACK | |
| 408 | 2-646-358-11 | SCREW (B1.7X4) | |

# SECTION 8
# ELECTRICAL PARTS LIST

AMP

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service.
  Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA. . : µA. . uPA. . : µPA. .
  uPB. . : µPB. . uPC. . : µPC. .
  uPD. . : µPD. .
- CAPACITORS
  uF: µF
- COILS
  uH: µH

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiquens pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| * | A-4547-274-A | AMP BOARD, COMPLETE | | | |
| | | ********** | | | |
| | 3-253-143-01 | SCREW (B2.6), (+) P TAPPING | | | |
| | | < CAPACITOR > | | | |
| C112 | 1-126-963-11 | ELECT | 4.7uF | 20% | 50V |
| C113 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C114 | 1-126-959-11 | ELECT | 0.47uF | 20% | 50V |
| C116 | 1-126-947-11 | ELECT | 47uF | 20% | 35V |
| C118 | 1-126-926-11 | ELECT | 1000uF | 20% | 10V |
| C119 | 1-126-933-11 | ELECT | 100uF | 20% | 16V |
| C120 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C121 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C125 | 1-126-964-11 | ELECT | 10uF | 20% | 50V |
| C126 | 1-126-964-11 | ELECT | 10uF | 20% | 50V |
| C127 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C128 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V |
| C212 | 1-126-963-11 | ELECT | 4.7uF | 20% | 50V |
| C213 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C214 | 1-126-959-11 | ELECT | 0.47uF | 20% | 50V |
| C216 | 1-126-947-11 | ELECT | 47uF | 20% | 35V |
| C218 | 1-126-926-11 | ELECT | 1000uF | 20% | 10V |
| C219 | 1-126-933-11 | ELECT | 100uF | 20% | 16V |
| C220 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C221 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C225 | 1-126-964-11 | ELECT | 10uF | 20% | 50V |
| C227 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C228 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V |
| C327 | 1-126-963-11 | ELECT | 4.7uF | 20% | 50V |
| C328 | 1-164-227-11 | CERAMIC CHIP | 0.022uF | 10% | 25V |
| C329 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V |
| C330 | 1-126-947-11 | ELECT | 47uF | 20% | 35V |
| C334 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C901 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C902 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C903 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C904 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C905 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C906 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C907 | 1-117-863-11 | CERAMIC CHIP | 0.47uF | 10% | 6.3V |
| C908 | 1-126-937-11 | ELECT | 4700uF | 20% | 16V |
| C909 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C911 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C912 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C913 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C914 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| | | < CONNECTOR > | | | |
| CN301 | 1-815-445-11 | PIN, CONNECTOR (PWB) 4P | | | |
| CN901 | 1-815-449-11 | PIN, CONNECTOR (PWB) 8P | | | |
| | | < DIODE > | | | |
| D101 | 8-719-988-61 | DIODE 1SS355TE-17 | | | |
| D102 | 8-719-988-61 | DIODE 1SS355TE-17 | | | |
| D201 | 8-719-988-61 | DIODE 1SS355TE-17 | | | |
| D202 | 8-719-988-61 | DIODE 1SS355TE-17 | | | |
| D901 | 8-719-988-61 | DIODE 1SS355TE-17 | | | |
| D902 | 8-719-988-61 | DIODE 1SS355TE-17 | | | |
| D903 | 6-500-611-01 | DIODE FR202 | | | |
| D904 | 6-500-611-01 | DIODE FR202 | | | |
| D905 | 6-500-611-01 | DIODE FR202 | | | |
| D906 | 6-500-611-01 | DIODE FR202 | | | |
| D908 | 6-500-611-01 | DIODE FR202 | | | |
| D909 | 6-500-611-01 | DIODE FR202 | | | |
| D910 | 6-500-611-01 | DIODE FR202 | | | |
| D911 | 6-500-611-01 | DIODE FR202 | | | |
| | | < IC > | | | |
| IC301 | 8-759-426-51 | IC BA5417 | | | |
| | | < TRANSISTOR > | | | |
| Q103 | 8-729-922-87 | TRANSISTOR | 2SD1757K-RS | | |
| Q203 | 8-729-922-87 | TRANSISTOR | 2SD1757K-RS | | |
| Q901 | 8-729-905-35 | TRANSISTOR | 2SC4081-R | | |
| | | < RESISTOR > | | | |
| R116 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R120 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R121 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| R123 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R124 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R125 | 1-216-789-11 | METAL CHIP | 2.2 | 5% | 1/10W |
| R126 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R129 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R130 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R137 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |

**AMP** **CD**

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| R140 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R216 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R220 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R221 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| R223 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R224 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R225 | 1-216-789-11 | METAL CHIP | 2.2 | 5% | 1/10W |
| R226 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R229 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R230 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R237 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| R240 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R317 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R318 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R319 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R323 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R335 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R902 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| ********** | | | | | |
| * | A-4542-926-A | CD BOARD, COMPLETE | | | |
| | | ********** | | | |
| | | < CAPACITOR > | | | |
| C701 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C702 | 1-126-947-11 | ELECT | 47uF | 20% | 35V |
| C703 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C704 | 1-162-919-11 | CERAMIC CHIP | 22PF | 5% | 50V |
| C705 | 1-162-968-11 | CERAMIC CHIP | 0.0047uF | 10% | 50V |
| C706 | 1-126-960-11 | ELECT | 1uF | 20% | 50V |
| C707 | 1-115-156-11 | CERAMIC CHIP | 1uF | | 10V |
| C708 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C709 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C711 | 1-162-974-11 | CERAMIC CHIP | 0.01uF | | 50V |
| C716 | 1-162-974-11 | CERAMIC CHIP | 0.01uF | | 50V |
| C717 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C720 | 1-162-919-11 | CERAMIC CHIP | 22PF | 5% | 50V |
| C721 | 1-162-919-11 | CERAMIC CHIP | 22PF | 5% | 50V |
| C722 | 1-162-919-11 | CERAMIC CHIP | 22PF | 5% | 50V |
| C723 | 1-162-974-11 | CERAMIC CHIP | 0.01uF | | 50V |
| C724 | 1-162-919-11 | CERAMIC CHIP | 22PF | 5% | 50V |
| C725 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C726 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C727 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C728 | 1-165-176-11 | CERAMIC CHIP | 0.047uF | 10% | 16V |
| C729 | 1-125-837-11 | CERAMIC CHIP | 1uF | 10% | 6.3V |
| C730 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C731 | 1-165-176-11 | CERAMIC CHIP | 0.047uF | 10% | 16V |
| C733 | 1-104-658-91 | ELECT | 100uF | 20% | 10V |
| C734 | 1-162-968-11 | CERAMIC CHIP | 0.0047uF | 10% | 50V |
| C735 | 1-126-916-11 | ELECT | 1000uF | 20% | 6.3V |
| C736 | 1-162-968-11 | CERAMIC CHIP | 0.0047uF | 10% | 50V |
| C740 | 1-126-925-91 | ELECT | 470uF | 20% | 10V |
| C741 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C742 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C743 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C744 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C745 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| C746 | 1-104-658-91 | ELECT | 100uF | 20% | 10V |
| C751 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C754 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C755 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| | | < CONNECTOR > | | | |
| CNP701 | 1-784-781-11 | CONNECTOR, FFC 20P | | | |
| * CNP702 | 1-784-736-11 | CONNECTOR, FFC 14P | | | |
| | | < SHORT > | | | |
| FB701 | 1-216-864-11 | SHORT CHIP | 0 | | |
| | | < IC > | | | |
| IC701 | 6-701-796-01 | IC LC78646E-E | | | |
| IC702 | 6-701-787-11 | IC BA5826FP-E2 | | | |
| | | < SHORT > | | | |
| JC703 | 1-216-864-11 | SHORT CHIP | 0 | | |
| JC704 | 1-216-864-11 | SHORT CHIP | 0 | | |
| JC705 | 1-216-864-11 | SHORT CHIP | 0 | | |
| JC706 | 1-216-864-11 | SHORT CHIP | 0 | | |
| JC707 | 1-216-864-11 | SHORT CHIP | 0 | | |
| JC708 | 1-216-864-11 | SHORT CHIP | 0 | | |
| JC709 | 1-216-864-11 | SHORT CHIP | 0 | | |
| JC710 | 1-216-864-11 | SHORT CHIP | 0 | | |
| JC711 | 1-216-864-11 | SHORT CHIP | 0 | | |
| L706 | 1-216-864-11 | SHORT CHIP | 0 | | |
| | | < TRANSISTOR > | | | |
| Q701 | 8-729-054-57 | TRANSISTOR | KTN2907AS-RTK | | |
| | | < RESISTOR > | | | |
| R702 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R703 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R704 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R706 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R707 | 1-216-797-11 | METAL CHIP | 10 | 5% | 1/10W |
| R708 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R709 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| R710 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R711 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R712 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R713 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R714 | 1-216-853-11 | METAL CHIP | 470K | 5% | 1/10W |
| R715 | 1-216-849-11 | METAL CHIP | 220K | 5% | 1/10W |
| R716 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R717 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R718 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R719 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R720 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R721 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R722 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R723 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R724 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R725 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R726 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R727 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |

**CD** **CD-CLOSE** **CD-OPEN** **CLOSE-TV** **FRONT-KEY** **LCD**

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| R728 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R729 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R730 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R731 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R732 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R733 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R739 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R740 | 1-216-849-11 | METAL CHIP | 220K | 5% | 1/10W |
| R741 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R742 | 1-216-853-11 | METAL CHIP | 470K | 5% | 1/10W |
| R744 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R746 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R747 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| R748 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R750 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R751 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| | | < VIBRATOR > | | | |
| X701 | 1-781-801-21 | VIBRATOR, CERAMIC (16.9344MHz) | | | |
| ********** | | | | | |
| * | 1-861-834-11 | CD-CLOSE BOARD | | | |
| | | ********** | | | |
| | | < SWITCH > | | | |
| S702 | 1-571-936-11 | SWITCH, LEAF (CD TRAY CLOSE DETECT) | | | |
| ********** | | | | | |
| * | 1-861-833-11 | CD-OPEN BOARD | | | |
| | | ********** | | | |
| | | < SWITCH > | | | |
| S703 | 1-571-936-11 | SWITCH, LEAF (CD TRAY OPEN DETECT) | | | |
| ********** | | | | | |
| | | CLOSE-TV BOARD | | | |
| | | ********** | | | |
| | | < SWITCH > | | | |
| S701 | 1-571-936-11 | SWITCH, LEAF (DISPLAY RELEASE) | | | |
| ********** | | | | | |
| * | A-4547-291-A | FRONT-KEY BOARD, COMPLETE | | | |
| | | ********** | | | |
| | | < RESISTOR > | | | |
| R601 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| R602 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R603 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R604 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R605 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R606 | 1-216-853-11 | METAL CHIP | 470K | 5% | 1/10W |
| R607 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R608 | 1-216-849-11 | METAL CHIP | 220K | 5% | 1/10W |
| R609 | 1-216-849-11 | METAL CHIP | 220K | 5% | 1/10W |
| R610 | 1-216-853-11 | METAL CHIP | 470K | 5% | 1/10W |
| R611 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| R612 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R613 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| R614 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R615 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R616 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R617 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R618 | 1-216-853-11 | METAL CHIP | 470K | 5% | 1/10W |
| R619 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R620 | 1-216-849-11 | METAL CHIP | 220K | 5% | 1/10W |
| R621 | 1-216-849-11 | METAL CHIP | 220K | 5% | 1/10W |
| R622 | 1-216-853-11 | METAL CHIP | 470K | 5% | 1/10W |
| R623 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| R624 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R625 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| R626 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R627 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R628 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R629 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R630 | 1-216-853-11 | METAL CHIP | 470K | 5% | 1/10W |
| R631 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R632 | 1-216-849-11 | METAL CHIP | 220K | 5% | 1/10W |
| R633 | 1-216-849-11 | METAL CHIP | 220K | 5% | 1/10W |
| R634 | 1-216-853-11 | METAL CHIP | 470K | 5% | 1/10W |
| | | < SWITCH > | | | |
| S601 | 1-771-349-21 | SWITCH, KEYBOARD (SOUND) | | | |
| S602 | 1-771-349-21 | SWITCH, KEYBOARD (MODE) | | | |
| S603 | 1-771-349-21 | SWITCH, KEYBOARD (1) | | | |
| S604 | 1-771-349-21 | SWITCH, KEYBOARD (2) | | | |
| S605 | 1-771-349-21 | SWITCH, KEYBOARD (VOLUMME +) | | | |
| S606 | 1-771-349-21 | SWITCH, KEYBOARD (3) | | | |
| S607 | 1-771-349-21 | SWITCH, KEYBOARD (4) | | | |
| S608 | 1-771-349-21 | SWITCH, KEYBOARD (5) | | | |
| S609 | 1-771-349-21 | SWITCH, KEYBOARD (VOLUME –) | | | |
| S610 | 1-771-349-21 | SWITCH, KEYBOARD (⏮) | | | |
| S611 | 1-771-349-21 | SWITCH, KEYBOARD (CD OPEN/CLOSE ⏏) | | | |
| S612 | 1-771-349-21 | SWITCH, KEYBOARD (⏭) | | | |
| S613 | 1-771-349-21 | SWITCH, KEYBOARD (TV/VIDEO) | | | |
| S614 | 1-771-349-21 | SWITCH, KEYBOARD (TV ON) | | | |
| S615 | 1-771-349-21 | SWITCH, KEYBOARD (CD ▷II) | | | |
| S616 | 1-771-349-21 | SWITCH, KEYBOARD (RADIO ON, BAND) | | | |
| S617 | 1-771-349-21 | SWITCH, KEYBOARD (OFF □) | | | |
| ********** | | | | | |
| * | A-4547-295-A | LCD BOARD, COMPLETE | | | |
| | | ********** | | | |
| | 3-264-174-01 | HOLDER (LCD) | | | |
| | | < CAPACITOR > | | | |
| C651 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C652 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C653 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C654 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C655 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C656 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C657 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C658 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C659 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C660 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |

## LCD MAIN

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| C661 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C662 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C663 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C664 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C665 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C666 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C667 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C668 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C669 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C670 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C671 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C672 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C673 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C674 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C675 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C676 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C677 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C678 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C679 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C680 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C681 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| | | < CONNECTOR > | | | |
| CN404 | 1-779-554-21 | CONNECTOR, FFC (LIF (NON-ZIF)) 17P | | | |
| CN405 | 1-779-553-21 | CONNECTOR, FFC (LIF (NON-ZIF)) 16P | | | |
| | | < LED > | | | |
| D651 | 6-500-218-01 | LED TLFGE53T (LCD BACK LIGHT) | | | |
| D652 | 6-500-218-01 | LED TLFGE53T (LCD BACK LIGHT) | | | |
| D653 | 8-719-053-59 | LED SLR-342DU (TIMER) | | | |
| | | < IC > | | | |
| IC651 | 6-600-481-01 | IC SPS-442-VP | | | |
| | | < LIQUID CRYSTAL DISPLAY > | | | |
| LCD651 | 1-805-559-11 | DISPLAY PANEL, LIQUID CRYSTAL | | | |
| | | < TRANSISTOR > | | | |
| Q651 | 8-729-028-83 | TRANSISTOR | DTA124EUA-T106 | | |
| | | < RESISTOR > | | | |
| R651 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/10W |
| R653 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R654 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R655 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| | | < ROTARY ENCODER > | | | |
| S651 | 1-418-651-11 | ENCODER, ROTARY | | | (TIMER PUSH STSRT/STOP) |

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| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| * | A-4547-287-A | MAIN BOARD, COMPLETE | | | |
| | | ********** | | | |
| | 3-253-143-01 | SCREW (B2.6), (+) P TAPPING | | | |
| | | < CAPACITOR > | | | |
| C101 | 1-125-838-11 | CERAMIC CHIP | 2.2uF | 10% | 6.3V |
| C102 | 1-125-838-11 | CERAMIC CHIP | 2.2uF | 10% | 6.3V |
| C103 | 1-125-838-11 | CERAMIC CHIP | 2.2uF | 10% | 6.3V |
| C105 | 1-125-838-11 | CERAMIC CHIP | 2.2uF | 10% | 6.3V |
| C106 | 1-165-176-11 | CERAMIC CHIP | 0.047uF | 10% | 16V |
| C107 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C108 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V |
| C109 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C110 | 1-126-963-11 | ELECT | 4.7uF | 20% | 50V |
| C111 | 1-126-964-11 | ELECT | 10uF | 20% | 50V |
| C122 | 1-126-963-11 | ELECT | 4.7uF | 20% | 50V |
| C123 | 1-125-838-11 | CERAMIC CHIP | 2.2uF | 10% | 6.3V |
| C129 | 1-162-962-11 | CERAMIC CHIP | 470PF | 10% | 50V |
| C130 | 1-162-968-11 | CERAMIC CHIP | 0.0047uF | 10% | 50V |
| C131 | 1-104-665-11 | ELECT | 100uF | 20% | 25V |
| C150 | 1-126-959-11 | ELECT | 0.47uF | 20% | 50V |
| C151 | 1-126-959-11 | ELECT | 0.47uF | 20% | 50V |
| C152 | 1-126-959-11 | ELECT | 0.47uF | 20% | 50V |
| C201 | 1-125-838-11 | CERAMIC CHIP | 2.2uF | 10% | 6.3V |
| C202 | 1-125-838-11 | CERAMIC CHIP | 2.2uF | 10% | 6.3V |
| C203 | 1-125-838-11 | CERAMIC CHIP | 2.2uF | 10% | 6.3V |
| C205 | 1-125-838-11 | CERAMIC CHIP | 2.2uF | 10% | 6.3V |
| C206 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C207 | 1-127-715-11 | CERAMIC CHIP | 0.22uF | 10% | 16V |
| C208 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V |
| C209 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C210 | 1-126-963-11 | ELECT | 4.7uF | 20% | 50V |
| C211 | 1-126-964-11 | ELECT | 10uF | 20% | 50V |
| C222 | 1-126-963-11 | ELECT | 4.7uF | 20% | 50V |
| C223 | 1-125-838-11 | CERAMIC CHIP | 2.2uF | 10% | 6.3V |
| C229 | 1-162-962-11 | CERAMIC CHIP | 470PF | 10% | 50V |
| C230 | 1-162-968-11 | CERAMIC CHIP | 0.0047uF | 10% | 50V |
| C231 | 1-104-665-11 | ELECT | 100uF | 20% | 25V |
| C250 | 1-126-959-11 | ELECT | 0.47uF | 20% | 50V |
| C251 | 1-126-959-11 | ELECT | 0.47uF | 20% | 50V |
| C252 | 1-126-959-11 | ELECT | 0.47uF | 20% | 50V |
| C305 | 1-126-947-11 | ELECT | 47uF | 20% | 35V |
| C308 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C309 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C310 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C320 | 1-126-947-11 | ELECT | 47uF | 20% | 35V |
| C321 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C322 | 1-126-947-11 | ELECT | 47uF | 20% | 35V |
| C323 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C324 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C325 | 1-127-715-11 | CERAMIC CHIP | 0.22uF | 10% | 16V |
| C326 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C337 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C338 | 1-126-933-11 | ELECT | 100uF | 20% | 16V |
| C340 | 1-126-961-11 | ELECT | 2.2uF | 20% | 50V |
| C350 | 1-126-935-11 | ELECT | 470uF | 20% | 16V |
| C351 | 1-126-947-11 | ELECT | 47uF | 20% | 35V |

## MAIN

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| C352 | 1-126-964-11 | ELECT | 10uF | 20% | 50V |
| C354 | 1-126-934-11 | ELECT | 220uF | 20% | 16V |
| C355 | 1-126-947-11 | ELECT | 47uF | 20% | 35V |
| C356 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C357 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C359 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C401 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C402 | 1-135-834-11 | CERAMIC CHIP | 2.2uF | | 6.3V |
| C403 | 1-135-834-11 | CERAMIC CHIP | 2.2uF | | 6.3V |
| C404 | 1-135-834-11 | CERAMIC CHIP | 2.2uF | | 6.3V |
| C405 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C406 | 1-104-658-91 | ELECT | 100uF | 20% | 10V |
| C407 | 1-135-834-11 | CERAMIC CHIP | 2.2uF | | 6.3V |
| C408 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C409 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C410 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C411 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C412 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C413 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C414 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C415 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C416 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C417 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C418 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C419 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C420 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C423 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C424 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C425 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C426 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C427 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C428 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C429 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C430 | 1-162-919-11 | CERAMIC CHIP | 22PF | 5% | 50V |
| C431 | 1-162-919-11 | CERAMIC CHIP | 22PF | 5% | 50V |
| C432 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C433 | 1-135-834-11 | CERAMIC CHIP | 2.2uF | | 6.3V |
| C434 | 1-104-658-91 | ELECT | 100uF | 20% | 10V |
| C437 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C441 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C442 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C443 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C444 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C445 | 1-126-925-91 | ELECT | 470uF | 20% | 10V |
| C446 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C447 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C448 | 1-126-964-11 | ELECT | 10uF | 20% | 50V |
| C449 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V |
| C450 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C451 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C465 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C466 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C468 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C501 | 1-125-837-11 | CERAMIC CHIP | 1uF | 10% | 6.3V |
| C502 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C503 | 1-162-919-11 | CERAMIC CHIP | 22PF | 5% | 50V |
| C504 | 1-162-919-11 | CERAMIC CHIP | 22PF | 5% | 50V |
| C505 | 1-104-662-11 | ELECT | 22uF | 20% | 25V |
| C506 | 1-125-837-11 | CERAMIC CHIP | 1uF | 10% | 6.3V |
| C507 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C508 | 1-162-968-11 | CERAMIC CHIP | 0.0047uF | 10% | 50V |
| C509 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C510 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C511 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C512 | 1-115-156-11 | CERAMIC CHIP | 1uF | | 10V |
| C513 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C514 | 1-125-837-11 | CERAMIC CHIP | 1uF | 10% | 6.3V |
| C515 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C516 | 1-104-658-91 | ELECT | 100uF | 20% | 10V |
| C517 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C518 | 1-126-964-11 | ELECT | 10uF | 20% | 50V |
| C519 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C520 | 1-126-925-91 | ELECT | 470uF | 20% | 10V |
| C521 | 1-126-925-91 | ELECT | 470uF | 20% | 10V |
| C951 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C952 | 1-126-925-91 | ELECT | 470uF | 20% | 10V |
| C953 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C954 | 1-126-925-91 | ELECT | 470uF | 20% | 10V |
| C956 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C957 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C958 | 1-126-923-91 | ELECT | 220uF | 20% | 10V |
| C959 | 1-126-923-91 | ELECT | 220uF | 20% | 10V |
| C960 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C961 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C962 | 1-126-923-91 | ELECT | 220uF | 20% | 10V |
| C963 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C964 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C965 | 1-126-925-91 | ELECT | 470uF | 20% | 10V |
| C966 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C967 | 1-126-925-91 | ELECT | 470uF | 20% | 10V |
| C968 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C970 | 1-128-548-11 | ELECT | 4700uF | 20% | 25V |
| C971 | 1-128-548-11 | ELECT | 4700uF | 20% | 25V |
| C972 | 1-104-662-11 | ELECT | 22uF | 20% | 25V |
| C973 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C974 | 1-126-933-11 | ELECT | 100uF | 20% | 16V |
| C975 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C977 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C978 | 1-126-933-11 | ELECT | 100uF | 20% | 16V |
| C979 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C980 | 1-126-933-11 | ELECT | 100uF | 20% | 16V |
| C981 | 1-126-968-11 | ELECT | 100uF | 20% | 50V |
| C982 | 1-126-767-11 | ELECT | 1000uF | 20% | 16V |
| C983 | 1-126-949-11 | ELECT | 220uF | 20% | 35V |
| C984 | 1-126-971-11 | ELECT | 470uF | 20% | 50V |
| C989 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C990 | 1-126-968-11 | ELECT | 100uF | 20% | 50V |
| C991 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |

< CONNECTOR >

| Ref. No. | Part No. | Description |
|---|---|---|
| CN302 | 1-815-446-11 | PIN, CONNECTOR (PWB) 5P |
| * CN303 | 1-785-665-11 | PIN, CONNECTOR (PC BOARD) 13P |
| * CN304 | 1-564-187-00 | PIN, CONNECTOR |
| CN401 | 1-815-443-11 | PIN, CONNECTOR (PWB) 2P |
| CN403 | 1-779-285-11 | CONNECTOR, FFC (LIF (NON-ZIF)) 17P |

# MAIN

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| CN406 | 1-815-446-11 | PIN, CONNECTOR (PWB) 5P | |
| CN408 | 1-784-775-11 | CONNECTOR, FFC 14P | |
| CN409 | 1-815-443-11 | PIN, CONNECTOR (PWB) 2P | |
| CN410 | 1-770-168-11 | FFC/CONNECTOR, FPC (LIF (NON-ZIF)) 16P | |
| CN411 | 1-815-443-11 | PIN, CONNECTOR (PWB) 2P | |
| CN412 | 1-815-443-21 | PIN, CONNECTOR (PWB) 2P | |
| * CN501 | 1-565-143-11 | PIN, CONNECTOR (STRAIGHT) 10P | |
| * CN502 | 1-565-135-11 | PIN, CONNECTOR (STRAIGHT) 2P | |
| * CN503 | 1-565-142-11 | PIN, CONNECTOR (STRAIGHT) 9P | |
| CN504 | 1-565-140-11 | PIN, CONNECTOR (STRAIGHT) 7P | |
| | | < DIODE > | |
| D103 | 8-719-988-61 | DIODE 1SS355TE-17 | |
| D104 | 8-719-988-61 | DIODE 1SS355TE-17 | |
| D203 | 8-719-988-61 | DIODE 1SS355TE-17 | |
| D204 | 8-719-988-61 | DIODE 1SS355TE-17 | |
| D303 | 8-719-063-79 | DIODE 1N4002B | |
| D306 | 8-719-988-61 | DIODE 1SS355TE-17 | |
| D307 | 8-719-988-61 | DIODE 1SS355TE-17 | |
| D401 | 8-719-911-19 | DIODE 1SS119-25 | |
| D402 | 8-719-911-19 | DIODE 1SS119-25 | |
| D912 | 8-719-063-79 | DIODE 1N4002B | |
| D913 | 8-719-063-79 | DIODE 1N4002B | |
| D914 | 8-719-063-79 | DIODE 1N4002B | |
| D915 | 8-719-063-79 | DIODE 1N4002B | |
| D916 | 8-719-063-79 | DIODE 1N4002B | |
| D917 | 8-719-063-79 | DIODE 1N4002B | |
| D918 | 8-719-063-79 | DIODE 1N4002B | |
| D951 | 8-719-941-23 | DIODE DA204U | |
| D952 | 8-719-109-89 | DIODE RD5.6ESB2 | |
| D953 | 8-719-988-61 | DIODE 1SS355TE-17 | |
| D955 | 8-719-988-61 | DIODE 1SS355TE-17 | |
| D956 | 8-719-109-72 | DIODE RD3.9ESB2 | |
| D957 | 8-719-988-61 | DIODE 1SS355TE-17 | |
| D958 | 8-719-941-23 | DIODE DA204U | |
| D959 | 8-719-109-97 | DIODE RD6.8ESB2 | |
| D960 | 8-719-988-61 | DIODE 1SS355TE-17 | |
| | | < IC > | |
| IC302 | 6-701-824-11 | IC BD3870FS-E2 | |
| IC304 | 8-759-677-02 | IC BU4053BCF-E2 | |
| IC305 | 8-759-962-08 | IC BA6208 | |
| IC401 | 6-804-161-01 | IC uPD789478GC-A31-8BT | |
| IC402 | 8-759-682-21 | IC XC61CN2002MR | |
| IC901 | 6-705-994-01 | IC XC6202P902FR | |
| IC902 | 8-759-450-47 | IC BA05T | |
| IC903 | 6-706-245-01 | IC XC6201P392PR | |
| | | < SHORT > | |
| JC401 | 1-216-864-11 | SHORT CHIP 0 | |
| JC402 | 1-216-864-11 | SHORT CHIP 0 | |
| JC403 | 1-216-864-11 | SHORT CHIP 0 | |
| JC404 | 1-216-864-11 | SHORT CHIP 0 | |
| JC405 | 1-216-864-11 | SHORT CHIP 0 | |
| | | < JACK > | |
| JK301 | 1-580-443-21 | JACK, PIN 3P ((MONO) INPUT AUDIO/VIDEO) | |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| | | < COIL/SHORT > | | | |
| L401 | 1-412-963-11 | INDUCTOR | 100uH | | |
| L402 | 1-412-963-11 | INDUCTOR | 100uH | | |
| L501 | 1-412-955-11 | INDUCTOR | 22uH | | |
| L502 | 1-412-951-11 | INDUCTOR | 10uH | | |
| L503 | 1-412-951-11 | INDUCTOR | 10uH | | |
| | | < IC LINK > | | | |
| PS903 | 1-533-591-31 | IC LINK | | | |
| PS904 | 1-533-591-31 | IC LINK | | | |
| | | < TRANSISTOR > | | | |
| Q101 | 8-729-905-35 | TRANSISTOR | 2SC4081-R | | |
| Q102 | 8-729-905-35 | TRANSISTOR | 2SC4081-R | | |
| Q104 | 8-729-905-35 | TRANSISTOR | 2SC4081-R | | |
| Q201 | 8-729-905-35 | TRANSISTOR | 2SC4081-R | | |
| Q202 | 8-729-905-35 | TRANSISTOR | 2SC4081-R | | |
| Q204 | 8-729-905-35 | TRANSISTOR | 2SC4081-R | | |
| Q301 | 8-729-037-13 | TRANSISTOR | KTA1271Y | | |
| Q302 | 8-729-028-81 | TRANSISTOR | DTA123JUA-T106 | | |
| Q304 | 8-729-028-83 | TRANSISTOR | DTA124EUA-T106 | | |
| Q305 | 8-729-029-14 | TRANSISTOR | DTC144EUA-T106 | | |
| Q350 | 8-729-905-35 | TRANSISTOR | 2SC4081-R | | |
| Q401 | 8-729-905-35 | TRANSISTOR | 2SC4081-R | | |
| Q403 | 8-729-028-83 | TRANSISTOR | DTA124EUA-T106 | | |
| Q404 | 8-729-029-14 | TRANSISTOR | DTC144EUA-T106 | | |
| Q501 | 8-729-116-57 | TRANSISTOR | 2SB1068-K | | |
| Q502 | 8-729-422-27 | TRANSISTOR | 2SD601A-Q | | |
| Q503 | 8-729-028-83 | TRANSISTOR | DTA124EUA-T106 | | |
| Q504 | 8-729-028-83 | TRANSISTOR | DTA124EUA-T106 | | |
| Q505 | 8-729-029-14 | TRANSISTOR | DTC144EUA-T106 | | |
| Q951 | 8-729-021-82 | TRANSISTOR | 2SD2396K | | |
| Q952 | 8-729-026-52 | TRANSISTOR | 2SA1576A-T106-R | | |
| Q954 | 8-729-036-86 | TRANSISTOR | KTC3203Y-AT | | |
| Q955 | 8-729-905-35 | TRANSISTOR | 2SC4081-R | | |
| Q956 | 8-729-021-82 | TRANSISTOR | 2SD2396K | | |
| Q957 | 8-729-026-52 | TRANSISTOR | 2SA1576A-T106-R | | |
| Q958 | 8-729-905-35 | TRANSISTOR | 2SC4081-R | | |
| Q959 | 6-550-610-01 | TRANSISTOR | 2SB1694 | | |
| Q960 | 8-729-905-35 | TRANSISTOR | 2SC4081-R | | |
| | | < RESISTOR > | | | |
| R102 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R103 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R104 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R105 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| R106 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R107 | 1-216-853-11 | METAL CHIP | 470K | 5% | 1/10W |
| R109 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R110 | 1-216-849-11 | METAL CHIP | 220K | 5% | 1/10W |
| R111 | 1-216-853-11 | METAL CHIP | 470K | 5% | 1/10W |
| R112 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R113 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R114 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R115 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R118 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R127 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |

## MAIN

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| R128 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R131 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R132 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R141 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R150 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R151 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R154 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| R155 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R157 | 1-216-849-11 | METAL CHIP | 220K | 5% | 1/10W |
| R158 | 1-216-849-11 | METAL CHIP | 220K | 5% | 1/10W |
| R202 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R203 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R204 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R205 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| R206 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R207 | 1-216-853-11 | METAL CHIP | 470K | 5% | 1/10W |
| R209 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R210 | 1-216-849-11 | METAL CHIP | 220K | 5% | 1/10W |
| R211 | 1-216-853-11 | METAL CHIP | 470K | 5% | 1/10W |
| R212 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R213 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R214 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R215 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R218 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R227 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| R228 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R231 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R232 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R241 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R250 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R251 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R254 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| R255 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R257 | 1-216-849-11 | METAL CHIP | 220K | 5% | 1/10W |
| R258 | 1-216-849-11 | METAL CHIP | 220K | 5% | 1/10W |
| R301 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R302 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R315 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R316 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R322 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R327 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R328 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R336 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R337 | 1-216-849-11 | METAL CHIP | 220K | 5% | 1/10W |
| R338 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R350 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R352 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R353 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R355 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R356 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R358 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R359 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R360 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R361 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R362 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R401 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| R403 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R405 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R406 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R408 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R410 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R411 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R412 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R413 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R414 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R415 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R416 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R417 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R418 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R419 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R420 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R421 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R422 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R423 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R424 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R425 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R426 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R427 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R428 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R429 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R430 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R431 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R432 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R433 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R434 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R435 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R436 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R437 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R438 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R439 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R440 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R441 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R442 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R443 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R444 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R445 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R446 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R447 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R448 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R449 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R450 | 1-216-849-11 | METAL CHIP | 220K | 5% | 1/10W |
| R451 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R453 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R455 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R457 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R459 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R460 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R461 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R462 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R463 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R464 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/10W |
| R465 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R466 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R467 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R468 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |

**MAIN** **MOTOR** **RELAY** **SIDE-KEY** **TRANS**

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| R469 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R470 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R471 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R472 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R473 | 1-216-849-11 | METAL CHIP | 220K | 5% | 1/10W |
| R474 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R475 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R476 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R477 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R478 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R479 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R480 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R481 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R482 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R483 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R484 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R485 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R486 | 1-216-849-11 | METAL CHIP | 220K | 5% | 1/10W |
| R487 | 1-216-853-11 | METAL CHIP | 470K | 5% | 1/10W |
| R488 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R489 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R490 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R491 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R492 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R494 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| R495 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R496 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R497 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R498 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R499 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R501 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R502 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R503 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R504 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R505 | 1-218-732-11 | METAL CHIP | 47K | 0.5% | 1/10W |
| R507 | 1-218-748-11 | METAL CHIP | 220K | 0.5% | 1/10W |
| R508 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R509 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R510 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R511 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R512 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R513 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R514 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R515 | 1-218-748-11 | METAL CHIP | 220K | 0.5% | 1/10W |
| R516 | 1-218-748-11 | METAL CHIP | 220K | 0.5% | 1/10W |
| R517 | 1-218-740-11 | METAL CHIP | 100K | 0.5% | 1/10W |
| R951 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R952 | 1-249-401-11 | CARBON | 47 | 5% | 1/4W |
| R953 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R958 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W |
| R959 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R960 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R961 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R962 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R963 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R964 | 1-249-401-11 | CARBON | 47 | 5% | 1/4W |
| R965 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R966 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R967 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R968 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R969 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R970 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| | | < TV TUNER UNIT > | | | |
| TU501 | 8-597-913-00 | TUNER, FSS (BTF-PA402Z) | | | |
| | | < VIBRATOR > | | | |
| X401 | 1-795-054-21 | VIBRATOR, CERAMIC (4.19MHz) | | | |
| X402 | 1-760-252-12 | VIBRATOR, CRYSTAL (32.768kHz) | | | |
| ********** | | | | | |
| * | 1-861-835-11 | MOTOR BOARD | | | |
| | | ********** | | | |
| ********** | | | | | |
| * | 1-861-830-11 | RELAY BOARD | | | |
| | | ********** | | | |
| | | < CONNECTOR > | | | |
| CNP704 | 1-784-742-11 | CONNECTOR, FFC 20P | | | |
| CNP705 | 1-779-553-21 | CONNECTOR, FFC (LIF (NON-ZIF)) 16P | | | |
| CNP706 | 1-565-878-11 | PIN, CONNECTOR (PC BOARD) 6P | | | |
| ********** | | | | | |
| * | 1-861-828-11 | SIDE-KEY BOARD | | | |
| | | ********** | | | |
| | | < RESISTOR > | | | |
| R635 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| R636 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R637 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| R638 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R639 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R640 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| | | < SWITCH > | | | |
| S618 | 1-771-349-21 | SWITCH, KEYBOAED (CLOCK) | | | |
| S619 | 1-771-349-21 | SWITCH, KEYBOAED (TV MENU) | | | |
| S620 | 1-771-349-21 | SWITCH, KEYBOAED (ENTER) | | | |
| ********** | | | | | |
| * | 1-861-829-11 | TRANS BOARD | | | |
| | | ********** | | | |
| | 1-533-233-31 | FUSE HOLDER | | | |
| | | < CAPACITOR > | | | |
| C992 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| | | < COIL > | | | |
| L901 | 1-402-964-11 | COIL, AIR-CORE | | | |
| L902 | 1-402-964-11 | COIL, AIR-CORE | | | |
| | | < RESISTOR > | | | |
| ⚠R905 | 1-219-759-11 | METAL | 1M | 5% | 1/2W F |
| ********** | | | | | |

| | |
|---|---|
| The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified. | Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié. |

# TUNER

| Ref. No. | Part No. | Description | | | | Remark |
|---|---|---|---|---|---|---|
| * | A-3663-818-A | TUNER BOARD, COMPLETE | | | | |
| | | ********** | | | | |
| | | < CAPACITOR > | | | | |
| C1 | 1-162-923-11 | CERAMIC CHIP | 47PF | 5% | 50V | |
| C4 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V | |
| C7 | 1-162-910-11 | CERAMIC CHIP | 5PF | 0.25PF | 50V | |
| C8 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V | |
| C9 | 1-162-915-11 | CERAMIC CHIP | 10PF | 0.5PF | 50V | |
| C10 | 1-126-960-11 | ELECT | 1uF | 20% | 50V | |
| C11 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | |
| C12 | 1-126-963-11 | ELECT | 4.7uF | 20% | 50V | |
| C13 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V | |
| C14 | 1-164-227-11 | CERAMIC CHIP | 0.022uF | 10% | 25V | |
| C15 | 1-164-227-11 | CERAMIC CHIP | 0.022uF | 10% | 25V | |
| C18 | 1-126-934-11 | ELECT | 220uF | 20% | 16V | |
| C20 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | |
| C21 | 1-126-960-11 | ELECT | 1uF | 20% | 50V | |
| C22 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | |
| C23 | 1-126-960-11 | ELECT | 1uF | 20% | 50V | |
| C24 | 1-162-960-11 | CERAMIC CHIP | 220PF | 10% | 50V | |
| C26 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V | |
| C27 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V | |
| C29 | 1-104-665-11 | ELECT | 100uF | 20% | 25V | |
| C30 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V | |
| C31 | 1-162-919-11 | CERAMIC CHIP | 22PF | 5% | 50V | |
| C32 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V | |
| C33 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V | |
| C34 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V | |
| C35 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V | |
| C37 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V | |
| C39 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | |
| C41 | 1-164-230-11 | CERAMIC CHIP | 220PF | 5% | 50V | |
| C42 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V | |
| C43 | 1-162-919-11 | CERAMIC CHIP | 22PF | 5% | 50V | |
| C47 | 1-162-915-11 | CERAMIC CHIP | 10PF | 0.5PF | 50V | |
| C49 | 1-161-051-00 | CERAMIC | 0.01uF | 10% | 25V | |
| C51 | 1-162-919-11 | CERAMIC CHIP | 22PF | 5% | 50V | |
| C52 | 1-162-915-11 | CERAMIC CHIP | 10PF | 0.5PF | 50V | |
| C53 | 1-136-169-00 | FILM | 0.22uF | 5% | 50V | |
| C54 | 1-126-934-11 | ELECT | 220uF | 20% | 16V | |
| C55 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V | |
| C56 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V | |
| C57 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V | |
| C59 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V | |
| C60 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V | |
| C61 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V | |
| C62 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V | |
| C63 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V | |
| C65 | 1-126-963-11 | ELECT | 4.7uF | 20% | 50V | |
| C66 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V | |
| C68 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V | |
| C80 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V | |
| C95 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V | |
| | | < FILTER > | | | | |
| CF2 | 1-760-235-81 | FILTER, CERAMIC | | | | |
| CF4 | 1-781-962-21 | FILTER, CERAMIC | | | | |
| | | < CONNECTOR > | | | | |
| * CNP1 | 1-785-663-11 | PIN, CONNECTOR (PC BOARD) 11P | | | | |
| | | < TRIMMER > | | | | |
| CT1 | 1-141-442-91 | CAP, CERAMIC TRIMMER | | | | |
| CT3 | 1-141-304-21 | CAP, CERAMIC TRIMMER | | | | |
| | | < DIODE > | | | | |
| D1 | 8-719-078-48 | DIODE KV1471ETR1-3 | | | | |
| D2 | 8-719-078-48 | DIODE KV1471ETR1-3 | | | | |
| D3 | 8-719-050-69 | DIODE KV1520N | | | | |
| D10 | 8-719-988-61 | DIODE 1SS355TE-17 | | | | |
| D11 | 8-719-988-61 | DIODE 1SS355TE-17 | | | | |
| | | < IC > | | | | |
| IC1 | 6-700-512-01 | IC TA2149BN | | | | |
| IC2 | 8-759-483-40 | IC LC72137M-TLM-E | | | | |
| | | < SHORT > | | | | |
| JC1 | 1-216-864-11 | SHORT CHIP | 0 | | | |
| JC2 | 1-216-864-11 | SHORT CHIP | 0 | | | |
| JC3 | 1-216-864-11 | SHORT CHIP | 0 | | | |
| JC4 | 1-216-864-11 | SHORT CHIP | 0 | | | |
| JC5 | 1-216-864-11 | SHORT CHIP | 0 | | | |
| JC6 | 1-216-864-11 | SHORT CHIP | 0 | | | |
| JC11 | 1-216-864-11 | SHORT CHIP | 0 | | | |
| JC12 | 1-216-864-11 | SHORT CHIP | 0 | | | |
| JC13 | 1-216-864-11 | SHORT CHIP | 0 | | | |
| JC33 | 1-216-864-11 | SHORT CHIP | 0 | | | |
| JC34 | 1-216-864-11 | SHORT CHIP | 0 | | | |
| | | < COIL > | | | | |
| L1 | 1-409-775-11 | COIL, AIR-CORE | | | | |
| L2 | 1-416-509-11 | COIL, AIR-CORE | | | | |
| L3 | 1-754-117-12 | ANTENNA, FERRITE-ROD (MW) | | | | |
| L4 | 1-411-234-21 | COIL, AM OSC | | | | |
| L11 | 1-414-142-11 | INDUCTOR | 1uH | | | |
| L21 | 1-410-509-11 | INDUCTOR | 10uH | | | |
| | | < RESISTOR > | | | | |
| R1 | 1-216-815-11 | METAL CHIP | 330 | 5% | 1/10W | |
| R2 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W | |
| R3 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | |
| R4 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | |
| R10 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/10W | |
| R11 | 1-216-827-11 | METAL CHIP | 3.3K | 5% | 1/10W | |
| R13 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W | |
| R24 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W | |
| R30 | 1-216-835-11 | METAL CHIP | 15K | 5% | 1/10W | |
| R31 | 1-216-827-11 | METAL CHIP | 3.3K | 5% | 1/10W | |
| R32 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W | |
| R40 | 1-216-849-11 | METAL CHIP | 220K | 5% | 1/10W | |
| R41 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | |
| R50 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W | |
| R51 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | |

## TUNER | TV

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| R52 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R53 | 1-216-835-11 | METAL CHIP | 15K | 5% | 1/10W |
| R54 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R56 | 1-216-815-11 | METAL CHIP | 330 | 5% | 1/10W |
| R58 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R59 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R60 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R61 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R63 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R65 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R91 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R92 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R94 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| | | < TRANSFORMER > | | | |
| T1 | 1-433-741-11 | TRANSFORMER, IF | | | |
| T2 | 1-419-465-11 | COIL (DET) | | | |
| | | < VIBRATOR > | | | |
| X1 | 1-795-449-11 | VIBRATOR, CRYSTAL (75kHz) | | | |
| ********** | | | | | |
| * | A-4547-278-A | TV BOARD, COMPLETE | | | |
| | | ********** | | | |
| | | < CAPACITOR > | | | |
| C1403 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C1404 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C1407 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C1408 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C1409 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C1410 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C1411 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C1412 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C1413 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C1414 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C1415 | 1-125-837-11 | CERAMIC CHIP | 1uF | 10% | 6.3V |
| C1419 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C1420 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C1421 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C1423 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C1426 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C1428 | 1-126-176-11 | ELECT | 220uF | 20% | 10V |
| C1429 | 1-125-837-11 | CERAMIC CHIP | 1uF | 10% | 6.3V |
| C1430 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C1431 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C1432 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C1433 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C1451 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C1452 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C1502 | 1-119-772-11 | ELECT | 47uF | 20% | 35V |
| C1503 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C1504 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C1505 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C1506 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C1507 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C1508 | 1-124-257-00 | ELECT | 2.2uF | 20% | 50V |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| C1509 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C1510 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C1511 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C1512 | 1-125-837-11 | CERAMIC CHIP | 1uF | 10% | 6.3V |
| C1513 | 1-125-837-11 | CERAMIC CHIP | 1uF | 10% | 6.3V |
| C1514 | 1-125-837-11 | CERAMIC CHIP | 1uF | 10% | 6.3V |
| C1515 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C1516 | 1-119-772-11 | ELECT | 47uF | 20% | 35V |
| C1517 | 1-124-257-00 | ELECT | 2.2uF | 20% | 50V |
| C1518 | 1-124-257-00 | ELECT | 2.2uF | 20% | 50V |
| C1519 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C1520 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C1521 | 1-124-257-00 | ELECT | 2.2uF | 20% | 50V |
| C1522 | 1-125-837-11 | CERAMIC CHIP | 1uF | 10% | 6.3V |
| C1523 | 1-119-772-11 | ELECT | 47uF | 20% | 35V |
| C1524 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V |
| C1525 | 1-164-227-11 | CERAMIC CHIP | 0.022uF | 10% | 25V |
| C1526 | 1-124-234-00 | ELECT | 22uF | 20% | 16V |
| C1527 | 1-124-465-00 | ELECT | 0.47uF | 20% | 50V |
| C1528 | 1-164-227-11 | CERAMIC CHIP | 0.022uF | 10% | 25V |
| C1529 | 1-125-837-11 | CERAMIC CHIP | 1uF | 10% | 6.3V |
| C1530 | 1-124-234-00 | ELECT | 22uF | 20% | 16V |
| C1531 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C1532 | 1-125-837-11 | CERAMIC CHIP | 1uF | 10% | 6.3V |
| C1533 | 1-126-163-11 | ELECT | 4.7uF | 20% | 50V |
| C1534 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C1535 | 1-125-837-11 | CERAMIC CHIP | 1uF | 10% | 6.3V |
| C1536 | 1-135-834-11 | CERAMIC CHIP | 2.2uF | | 6.3V |
| C1537 | 1-126-163-11 | ELECT | 4.7uF | 20% | 50V |
| C1538 | 1-162-912-11 | CERAMIC CHIP | 7PF | 0.5PF | 50V |
| C1539 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C1540 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C1541 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C1542 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C1543 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C1544 | 1-125-837-11 | CERAMIC CHIP | 1uF | 10% | 6.3V |
| C1545 | 1-164-227-11 | CERAMIC CHIP | 0.022uF | 10% | 25V |
| C1546 | 1-162-914-11 | CERAMIC CHIP | 9PF | 0.5PF | 50V |
| C1547 | 1-162-962-11 | CERAMIC CHIP | 470PF | 10% | 50V |
| C1549 | 1-125-837-11 | CERAMIC CHIP | 1uF | 10% | 6.3V |
| C1551 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C1553 | 1-126-157-11 | ELECT | 10uF | 20% | 16V |
| C1554 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C1555 | 1-126-157-11 | ELECT | 10uF | 20% | 16V |
| C1556 | 1-162-915-11 | CERAMIC CHIP | 10PF | 0.5PF | 50V |
| C1557 | 1-162-915-11 | CERAMIC CHIP | 10PF | 0.5PF | 50V |
| C1558 | 1-162-910-11 | CERAMIC CHIP | 5PF | 0.25PF | 50V |
| C1559 | 1-126-157-11 | ELECT | 10uF | 20% | 16V |
| C1560 | 1-119-772-11 | ELECT | 47uF | 20% | 35V |
| C1561 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C1562 | 1-119-772-11 | ELECT | 47uF | 20% | 35V |
| C1563 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C1564 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C1565 | 1-115-566-11 | CERAMIC CHIP | 4.7uF | 10% | 10V |
| C1566 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C1567 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C1568 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C1569 | 1-162-915-11 | CERAMIC CHIP | 10PF | 0.5PF | 50V |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| C1570 | 1-162-919-11 | CERAMIC CHIP | 22PF | 5% | 50V |
| C1571 | 1-162-919-11 | CERAMIC CHIP | 22PF | 5% | 50V |
| C1572 | 1-162-919-11 | CERAMIC CHIP | 22PF | 5% | 50V |
| C1601 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C1603 | 1-162-923-11 | CERAMIC CHIP | 47PF | 5% | 50V |
| C1604 | 1-162-914-11 | CERAMIC CHIP | 9PF | 0.5PF | 50V |
| C1605 | 1-125-837-11 | CERAMIC CHIP | 1uF | 10% | 6.3V |
| C1606 | 1-125-972-11 | ELECT | 100uF | 20% | 16V |
| C1607 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C1608 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C1609 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C1610 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C1611 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C1612 | 1-125-972-11 | ELECT | 100uF | 20% | 16V |
| C1651 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C1652 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C1653 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C1654 | 1-124-222-11 | ELECT | 22uF | 20% | 6.3V |
| C1655 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C1656 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C1657 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C1658 | 1-164-230-11 | CERAMIC CHIP | 220PF | 5% | 50V |
| C1659 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C1660 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C1661 | 1-119-772-11 | ELECT | 47uF | 20% | 35V |
| C1662 | 1-164-315-11 | CERAMIC CHIP | 470PF | 5% | 50V |
| C1801 | 1-128-111-11 | ELECT | 100uF | 20% | 25V |
| C1802 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C1803 | 1-124-261-00 | ELECT | 10uF | 20% | 25V |
| C1804 | 1-128-111-11 | ELECT | 100uF | 20% | 25V |
| C1805 | 1-100-639-21 | MYLAR CHIP | 0.1uF | 5% | 100V |
| C1902 | 1-125-972-11 | ELECT | 100uF | 20% | 16V |
| C1904 | 1-128-111-11 | ELECT | 100uF | 20% | 25V |
| C1905 | 1-128-111-11 | ELECT | 100uF | 20% | 25V |
| C1908 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C1909 | 1-125-972-11 | ELECT | 100uF | 20% | 16V |
| C1910 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C1911 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C1912 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C1914 | 1-125-972-11 | ELECT | 100uF | 20% | 16V |
| C1915 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C1916 | 1-128-131-11 | ELECT | 22uF | 20% | 50V |
| C1917 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C1918 | 1-119-772-11 | ELECT | 47uF | 20% | 35V |
| C1919 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C1920 | 1-125-972-11 | ELECT | 100uF | 20% | 16V |
| C1921 | 1-128-131-11 | ELECT | 22uF | 20% | 50V |
| C1922 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C1923 | 1-119-772-11 | ELECT | 47uF | 20% | 35V |
| C1924 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C1925 | 1-128-111-11 | ELECT | 100uF | 20% | 25V |
| C1926 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C1927 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C1928 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C1929 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C1951 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C1952 | 1-119-772-11 | ELECT | 47uF | 20% | 35V |
| C1953 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C1954 | 1-119-772-11 | ELECT | 47uF | 20% | 35V |
| C1955 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C1956 | 1-119-772-11 | ELECT | 47uF | 20% | 35V |
| C1957 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C1958 | 1-119-772-11 | ELECT | 47uF | 20% | 35V |
| C1959 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C1960 | 1-119-772-11 | ELECT | 47uF | 20% | 35V |
| C1961 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |

< CONNECTOR >

| Ref. No. | Part No. | Description |
|---|---|---|
| * CN1401 | 1-565-157-11 | PIN, CONNECTOR (ANGLE) 10P |
| * CN1402 | 1-565-149-11 | PIN, CONNECTOR (ANGLE) 2P |
| * CN1403 | 1-565-156-11 | PIN, CONNECTOR (ANGLE) 9P |
| * CN1404 | 1-565-154-11 | PIN, CONNECTOR (ANGLE) 7P |
| CN1801 | 1-815-494-21 | PIN, CONNECTOR 2P |
| CN1802 | 1-794-237-21 | CONNECTOR, FFC/FPC 30P |

< DIODE >

| Ref. No. | Part No. | Description |
|---|---|---|
| D1401 | 8-719-911-19 | DIODE 1SS119-25 |
| D1402 | 8-719-911-19 | DIODE 1SS119-25 |
| D1501 | 8-719-044-76 | DIODE 1SS356-TW11 |
| D1601 | 8-719-044-76 | DIODE 1SS356-TW11 |
| D1652 | 8-719-027-74 | DIODE 1SV231-TPH3 |
| D1653 | 8-719-069-54 | DIODE UDZSTE-175.1B |
| D1654 | 8-719-044-76 | DIODE 1SS356-TW11 |
| D1655 | 8-719-987-69 | DIODE DAN217 |
| D1801 | 8-719-422-43 | DIODE MA8051-H |
| D1901 | 8-719-083-63 | DIODE UDZSTE-1713B |
| D1902 | 8-719-083-66 | DIODE UDZSTE-1718B |
| D1951 | 8-719-044-76 | DIODE 1SS356-TW11 |
| D1952 | 8-719-044-76 | DIODE 1SS356-TW11 |
| D1953 | 8-719-044-76 | DIODE 1SS356-TW11 |
| D1954 | 8-719-044-76 | DIODE 1SS356-TW11 |

< FUSE >

| Ref. No. | Part No. | Description |
|---|---|---|
| ⚠F1801 | 1-576-604-21 | FUSE (1A/72V) |

< FILTER >

| Ref. No. | Part No. | Description |
|---|---|---|
| FB1601 | 1-239-896-12 | FILTER, EMI (SMD) |
| FB1602 | 1-239-896-12 | FILTER, EMI (SMD) |
| FB1603 | 1-239-896-12 | FILTER, EMI (SMD) |

< IC >

| Ref. No. | Part No. | Description |
|---|---|---|
| IC1401 | 6-804-162-01 | IC uPD789477GC-A45-8BT |
| IC1451 | 6-700-337-01 | IC CAT24WC04WI-1.8-TE13 |
| IC1501 | 6-704-269-01 | IC AN2546FH-AV |
| IC1551 | 6-803-083-01 | IC uPD6467GR-546-E1 |
| IC1552 | 8-759-331-71 | IC NJM4558E (TE2) |
| IC1601 | 6-704-648-01 | IC MN5814 |
| IC1651 | 6-704-270-01 | IC NJU7071V |
| IC1901 | 8-759-533-85 | IC L88M05T-FA-TL |
| IC1903 | 6-704-268-01 | IC XC6206P332MR |

< COIL >

| Ref. No. | Part No. | Description | |
|---|---|---|---|
| L1501 | 1-400-145-21 | INDUCTOR | 47uH |
| L1502 | 1-412-963-11 | INDUCTOR | 100uH |
| L1503 | 1-412-963-11 | INDUCTOR | 100uH |

| | |
|---|---|
| The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified. | Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié. |

## TV

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| L1504 | 1-400-145-21 | INDUCTOR | 47uH | | |
| L1551 | 1-400-145-21 | INDUCTOR | 47uH | | |
| L1552 | 1-412-955-11 | INDUCTOR | 22uH | | |
| L1553 | 1-412-951-11 | INDUCTOR | 10uH | | |
| L1601 | 1-412-941-11 | INDUCTOR | 1.5uH | | |
| L1602 | 1-400-145-21 | INDUCTOR | 47uH | | |
| L1603 | 1-400-145-21 | INDUCTOR | 47uH | | |
| L1651 | 1-400-145-21 | INDUCTOR | 47uH | | |
| L1652 | 1-412-951-11 | INDUCTOR | 10uH | | |
| L1801 | 1-456-437-21 | COIL, CHOKE | 100uH | | |
| L1903 | 1-412-951-11 | INDUCTOR | 10uH | | |
| L1904 | 1-412-951-11 | INDUCTOR | 10uH | | |
| L1955 | 1-412-951-11 | INDUCTOR | 10uH | | |
| L1956 | 1-412-951-11 | INDUCTOR | 10uH | | |
| L1957 | 1-410-381-11 | INDUCTOR | 10uH | | |
| L1958 | 1-410-381-11 | INDUCTOR | 10uH | | |
| L1959 | 1-412-951-11 | INDUCTOR | 10uH | | |
| | | < TRANSISTOR > | | | |
| Q1501 | 8-729-905-35 | TRANSISTOR | 2SC4081-R | | |
| Q1502 | 8-729-905-35 | TRANSISTOR | 2SC4081-R | | |
| Q1503 | 8-729-905-35 | TRANSISTOR | 2SC4081-R | | |
| Q1504 | 8-729-905-35 | TRANSISTOR | 2SC4081-R | | |
| Q1505 | 8-729-905-35 | TRANSISTOR | 2SC4081-R | | |
| Q1551 | 8-729-905-35 | TRANSISTOR | 2SC4081-R | | |
| Q1552 | 8-729-026-52 | TRANSISTOR | 2SA1576A-T106-R | | |
| Q1553 | 6-550-139-01 | TRANSISTOR | IMZ1A-T108 | | |
| Q1801 | 8-729-905-35 | TRANSISTOR | 2SC4081-R | | |
| Q1802 | 8-729-903-87 | TRANSISTOR | 2SB1188-Q | | |
| Q1803 | 8-729-111-14 | TRANSISTOR | 2SA1385-Z-L | | |
| Q1804 | 8-729-402-13 | TRANSISTOR | XN1501 | | |
| Q1805 | 6-550-632-01 | TRANSISTOR | 2SC4672-T100-Q | | |
| Q1806 | 6-550-632-01 | TRANSISTOR | 2SC4672-T100-Q | | |
| Q1901 | 8-729-026-52 | TRANSISTOR | 2SA1576A-T106-R | | |
| Q1902 | 8-729-905-35 | TRANSISTOR | 2SC4081-R | | |
| Q1903 | 6-550-632-01 | TRANSISTOR | 2SC4672-T100-Q | | |
| Q1905 | 8-729-903-46 | TRANSISTOR | 2SB1132-P | | |
| Q1906 | 8-729-905-35 | TRANSISTOR | 2SC4081-R | | |
| Q1909 | 8-729-905-35 | TRANSISTOR | 2SC4081-R | | |
| Q1910 | 8-729-026-52 | TRANSISTOR | 2SA1576A-T106-R | | |
| Q1911 | 8-729-026-52 | TRANSISTOR | 2SA1576A-T106-R | | |
| Q1912 | 8-729-905-35 | TRANSISTOR | 2SC4081-R | | |
| Q1913 | 8-729-026-52 | TRANSISTOR | 2SA1576A-T106-R | | |
| | | < RESISTOR > | | | |
| R1401 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1402 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1403 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R1404 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1405 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1406 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1407 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R1408 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R1409 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R1410 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R1413 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1414 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R1415 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1416 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R1418 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1419 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1420 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R1421 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1422 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1423 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1424 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1425 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1426 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1427 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1428 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1429 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1430 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1431 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1432 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R1433 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R1434 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R1435 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1436 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1437 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1438 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1439 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1440 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1441 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R1442 | 1-216-849-11 | METAL CHIP | 220K | 5% | 1/10W |
| R1443 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1445 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R1446 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R1447 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R1448 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R1451 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R1452 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R1454 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R1455 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1501 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/10W |
| R1502 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/10W |
| R1503 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/10W |
| R1504 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R1505 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R1506 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R1507 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1508 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1509 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| R1510 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1511 | 1-216-857-11 | METAL CHIP | 1M | 5% | 1/10W |
| R1512 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1513 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1514 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R1515 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R1516 | 1-216-849-11 | METAL CHIP | 220K | 5% | 1/10W |
| R1517 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R1518 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R1519 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R1520 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R1521 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R1522 | 1-216-864-11 | SHORT CHIP | 0 | | |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| R1523 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R1524 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R1525 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R1526 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1527 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R1528 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R1534 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| R1536 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1538 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1539 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R1540 | 1-216-853-11 | METAL CHIP | 470K | 5% | 1/10W |
| R1542 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R1543 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R1545 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R1551 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R1552 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R1553 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R1554 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R1555 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1556 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1557 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1558 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1559 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1560 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1561 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1562 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1563 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R1564 | 1-216-849-11 | METAL CHIP | 220K | 5% | 1/10W |
| R1565 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R1566 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| R1567 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1568 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1569 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R1570 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1571 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| R1572 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| R1573 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1574 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R1575 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/10W |
| R1576 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1601 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R1602 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1603 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1604 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R1605 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1606 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1607 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1611 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1612 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1613 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1614 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1615 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1616 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1617 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1618 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1619 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1620 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1621 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1622 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1623 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1624 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1625 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1626 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1627 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1628 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1629 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1630 | 1-216-853-11 | METAL CHIP | 470K | 5% | 1/10W |
| R1631 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| R1632 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R1633 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1634 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1635 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1638 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1640 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1642 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1643 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1651 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R1652 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1653 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R1654 | 1-216-849-11 | METAL CHIP | 220K | 5% | 1/10W |
| R1655 | 1-216-857-11 | METAL CHIP | 1M | 5% | 1/10W |
| R1656 | 1-216-849-11 | METAL CHIP | 220K | 5% | 1/10W |
| R1657 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| R1658 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R1659 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R1660 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R1661 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R1662 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R1664 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R1665 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R1666 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R1668 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1777 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R1801 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| R1802 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R1803 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R1804 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R1805 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R1806 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R1807 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R1808 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1809 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1810 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R1811 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R1812 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R1813 | 1-216-857-11 | METAL CHIP | 1M | 5% | 1/10W |
| R1814 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R1815 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R1902 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1903 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R1904 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R1905 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R1910 | 1-216-849-11 | METAL CHIP | 220K | 5% | 1/10W |
| R1911 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R1912 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |

**TV**

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| ********** | | | |
| | | MISCELLANEOUS | |
| | | ********** | |
| 53 | 1-829-096-11 | CABLE, FLEXIBLE FLAT (17 CORE) | |
| 55 | 1-829-095-11 | CABLE, FLEXIBLE FLAT (16 CORE) | |
| ⚠108 | 1-828-104-11 | CORD, POWER | |
| 207 | 1-829-094-11 | CABLE, FLEXIBLE FLAT (20 CORE) | |
| 209 | 1-829-093-11 | CABLE, FLEXIBLE FLAT (14 CORE) | |
| * 401 | A-4902-666-A | MD ASSY (900AAA-RP) (Including M701 (SLED), M702 (SPINDLE)) | |
| ⚠406 | 8-820-137-02 | OPTICAL PICK-UP KSS-900A/C2RP | |
| ⚠F901 | 1-533-450-12 | FUSE, GLASS TUBE (DIA. 5) (2.5A/125V) | |
| ⚠F902 | 1-533-450-12 | FUSE, GLASS TUBE (DIA. 5) (2.5A/125V) | |
| LCD1 | 1-478-616-11 | LCD UNIT | |
| M301 | 1-763-183-12 | MOTOR, DC (CD TRAY OPEN/CLOSE) | |
| SP101 | 1-825-799-11 | SPEAKER (7.7cm) | |
| SP201 | 1-825-799-11 | SPEAKER (7.7cm) | |
| ⚠T901 | 1-443-226-11 | TRANSFORMER, POWER | |
| ********** | | | |
| | | ACCESSORIES | |
| | | ********** | |
| | 3-009-707-01 | SPACER | |
| | 3-011-879-01 | SCREW (M5X80), +B (MOUNTING SCREW) | |
| | 3-265-481-11 | MANUAL, INSTRUCTION (ENGLISH) (US) | |
| | 3-265-481-21 | MANUAL, INSTRUCTION (ENGLISH, FRENCH) (Canadian) | |
| | 3-265-573-02 | CARD BOARD (TEMPLATE) | |
| | 3-267-151-21 | LID, BATTERY (for RMT-CCD555A) | |
| | A-1062-826-A | REMOTE CONTROL UNIT (RMT-CCD555A) | |

| | |
|---|---|
| The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified. | Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié. |

*MEMO*

# REVISION HISTORY

Clicking the version allows you to jump to the revised page.
Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

| Ver. | Date | Description of Revision |
|---|---|---|
| 1.0 | 2004.03 | New |
| 1.1 | 2004.11 | Addition of Canadian model (ENG-04019) |
| 1.2 | 2005.07 | Change of Part for Ref. No. IC651 on LCD board (SPM-05066) |
| 1.3 | 2005.10 | Addition of Ref. No. 169 on EXPLODED VIEWS (SPM-05161) |
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